# Food Packer

**The National Magazine of Production and Management**

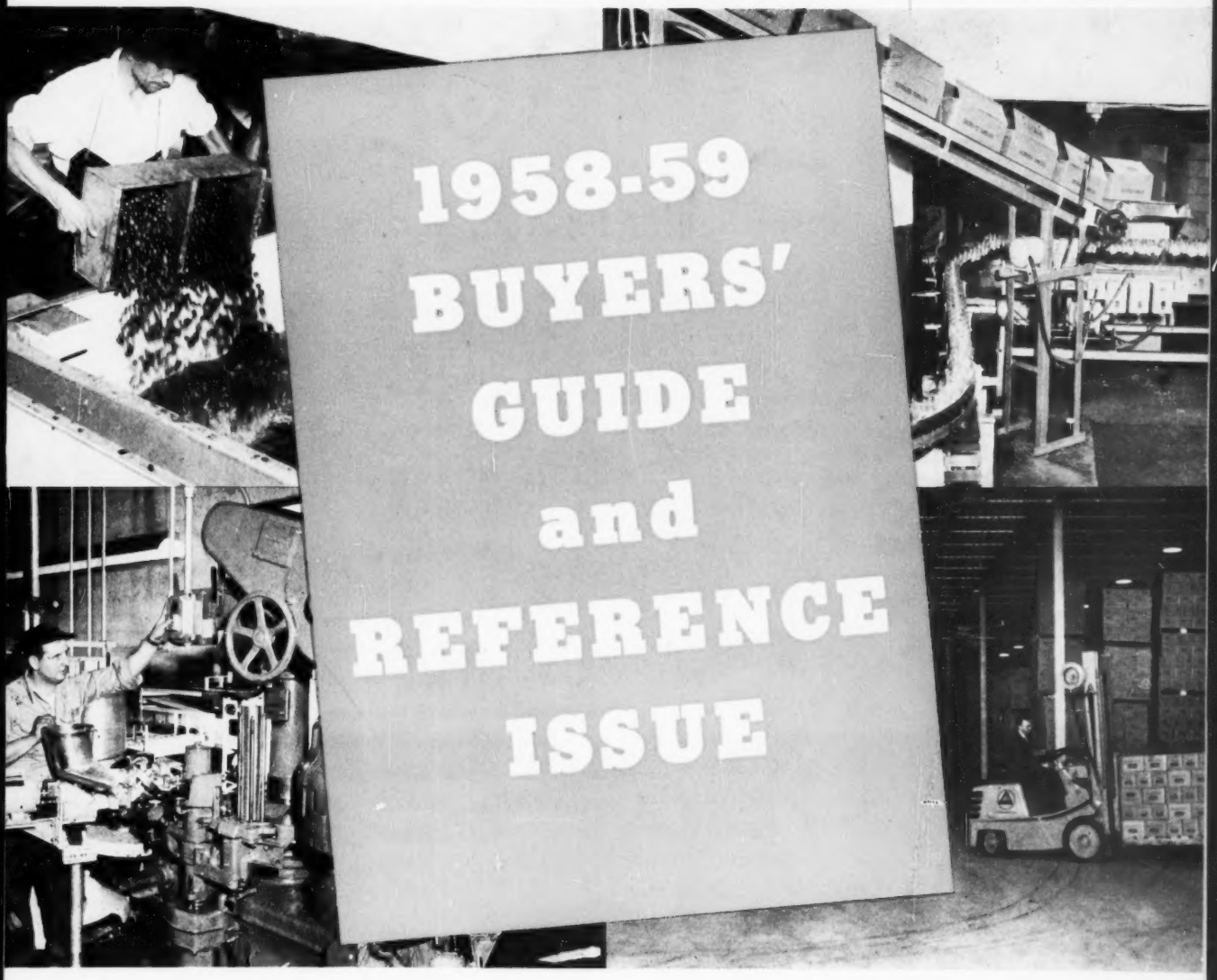
CANNING GLASSPACKING FREEZING

A Vance PUBLICATION

September 30, 1958

CLASSIFIED DIRECTORY of:

- Equipment
- Supplies
- Materials




- **Flow Charts: Plant Layouts and Equipment Guides.**
- **Pack Trends: Current Statistics, 10-Year Pack, Consumption Trend.**
- **Buyers' Guide: Classified Listing of Manufacturers and Suppliers.**
- **Crop Data: Acreage, Prices Paid, Value of Processing Crops.**

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PLANTS
FROM COAST
TO COAST

# Food Packer

SEPTEMBER 30, 1958

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# 1958-59 Buyers' Guide and Reference Issue

## Flow Charts

Guide to Charts, Buyers' Guide and Statistics ..... 13
Plant Layouts, Plant and Quality Control Equipment Guide ..... 14

## Pack Trends

Production Trends of Canned and Frozen Foods ..... 90

## Buyers' Guide

Section A—Processing Equipment ..... 45
Section B—Food Ingredients and Additives ..... 62
Section C—Field Machinery and Supplies ..... 65
Section D—Plant Maintenance and Operating Supplies ..... 70
Section E—Freezing Equipment and Supplies ..... 75
Section F—Packaging Equipment, Containers and Supplies ..... 77
Section G—Quality Control Equipment and Supplies ..... 84
Section H—Special Services ..... 86

## Crop Data

Field Acreage: Yield, Production, Prices and Value of 11 Vegetable Crops ..... 92
Plant Food Requirements for Vegetable and Fruit Crops ..... 89

## Equipment and Service Guide

Food Plant Pumps, High Pressure Sprays ..... 95
Conveyors, Belts, Pulleys, Arrangements ..... 96
Checklist for Sanitation ..... 100
Control Chart for Salt, Sugar ..... 101

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## Industry References

U.S. Food and Drug Administration Office ..... 89
State Agricultural Experiment
State and Regional Food Processing Associations ..... 97
Distributors, Suppliers and Other Industry Organizations ..... 99
U.S. Standards for Grades of Processed Fruits and Vegetables ..... 88

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THE WAY

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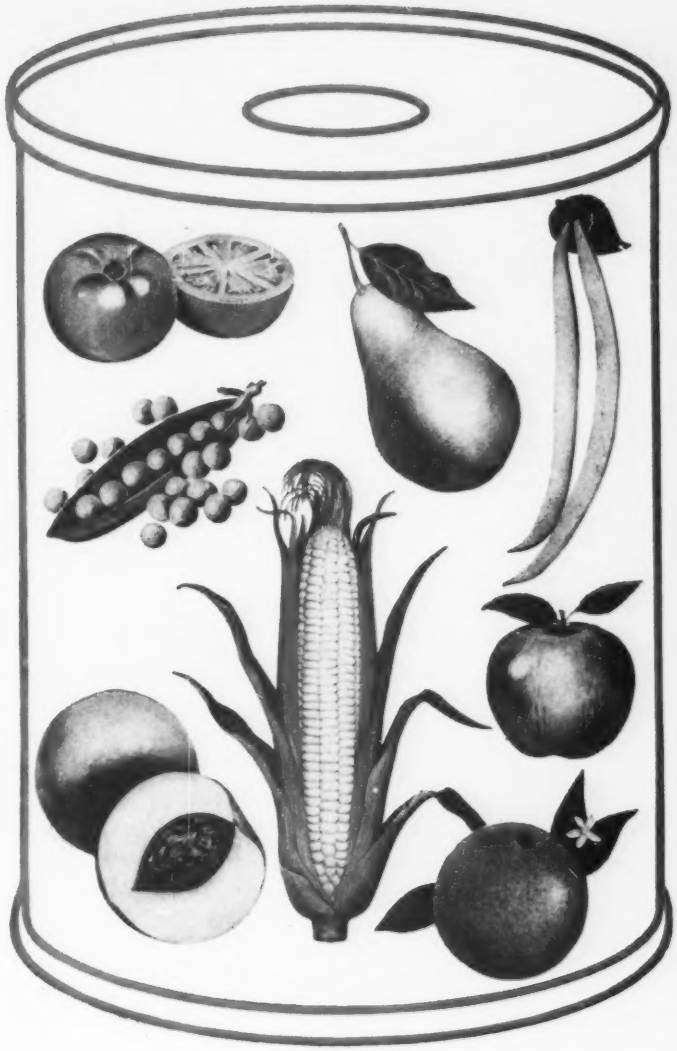

Canco's many services are aimed at assisting you in every phase of your canning operation. Canco plants are strategically located so you can depend on prompt delivery of the world's finest metal containers. Scientists and technicians back up this service with know-how and experience, to find quick solutions to special problems—to find new and better ways of packaging your product.

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CERELOSE also preserves natural color and form, assures superior texture, excellent eating qualities... adds appetite and sales appeal.

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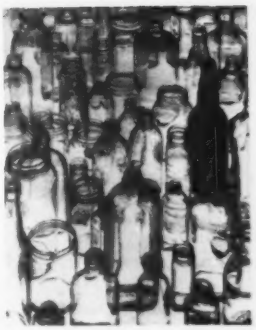

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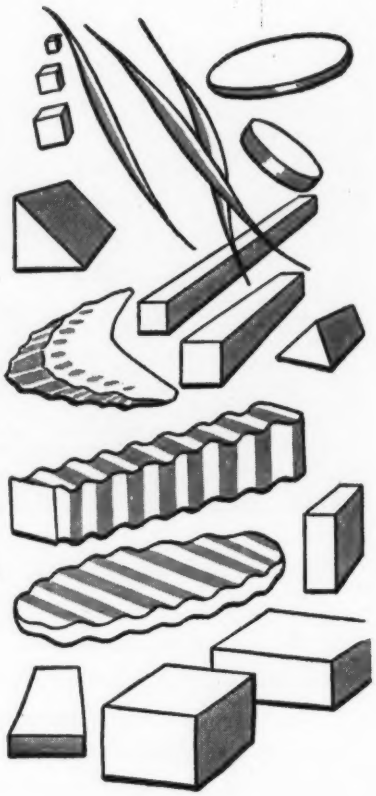

• We don't know what the foods of the future will be like—but we do know that today's housewife is constantly searching for the new and excitingly different in food cuts with which to tempt her family's jaded appetites.

• This challenge to modern food packers for freshly different, taste-tempting food cuts is being continually met by Urschel research and new designs in precision, high speed cutting equipment. The Urschel Model W, for example, started a consumer swing to French Style Bean Strips (made from *round* podded beans); the Model GK made possible perfect *crinkle-cutting* of potatoes, beets, carrots, pineapple and melon on a high production basis (up to 10 tons per hour). Another Urschel unit changed the same raw product from a Standard to a faster-selling Fancy Grade.

• What shapes of foods to come? *You* name them, and chances are excellent that Urschel engineers can produce the precision, high production units to give you the new, interesting food cuts you want to increase your sales.

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**URSCHEL**
**LABORATORIES INC.**
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*Designers and manufacturers of precision, high speed cutting equipment for food products*

SEPTEMBER 30, 1958 **Food Packer** Vol. 39, No. 10

CANNING • GLASSPACKING • FREEZING

# Guide to Charts, Statistics, and Buyers' Guide

## How to Use This Issue

The first two sections of the Buyers' Guide and Reference Issue are intended to be used together. Here is how they work:

**1. Adding a new line?** The flow charts show layouts for 31 important products, with equipment listed in tabular form. Any packer considering a new line can look over the charts to see what equipment he will need. He can then turn to the Buyers' Guide section and find who manufactures the items.

**2. Planning on modernizing?** Many of the charts in this section show the layout of actual plants. Others were made as a combination of several plants.

The flow charts are not intended to be engineering floor plans. But the packer who is planning to modernize his line may find the layout of another packer will serve as a useful guide.

**3. Adding new equipment?** For the packer who is not intending major changes, the flow charts can be an index. The quickest way to find the names of all the manufacturers of all the equipment used in a canning or freezing line is to turn to the chart. Then from the equipment listing next to the chart the proper section in the Buyers' Guide can be found.

The Buyers' Guide is a classified listing of manufacturers and suppliers of canning and freezing equipment and materials. There are eight categories:

Section A: Processing Equipment ..... 45

Section B: Food Ingredients and Additives..... 62

Section C: Field Machinery and Supplies..... 65

Section D: Plant Maintenance and Operating Supplies ..... 70

Section E: Freezing Equipment and Supplies... 75

Section F: Packaging Equipment and Supplies. 76

Section G: Quality Control Equipment and Supplies ..... 84

Section H: Special Services ..... 86

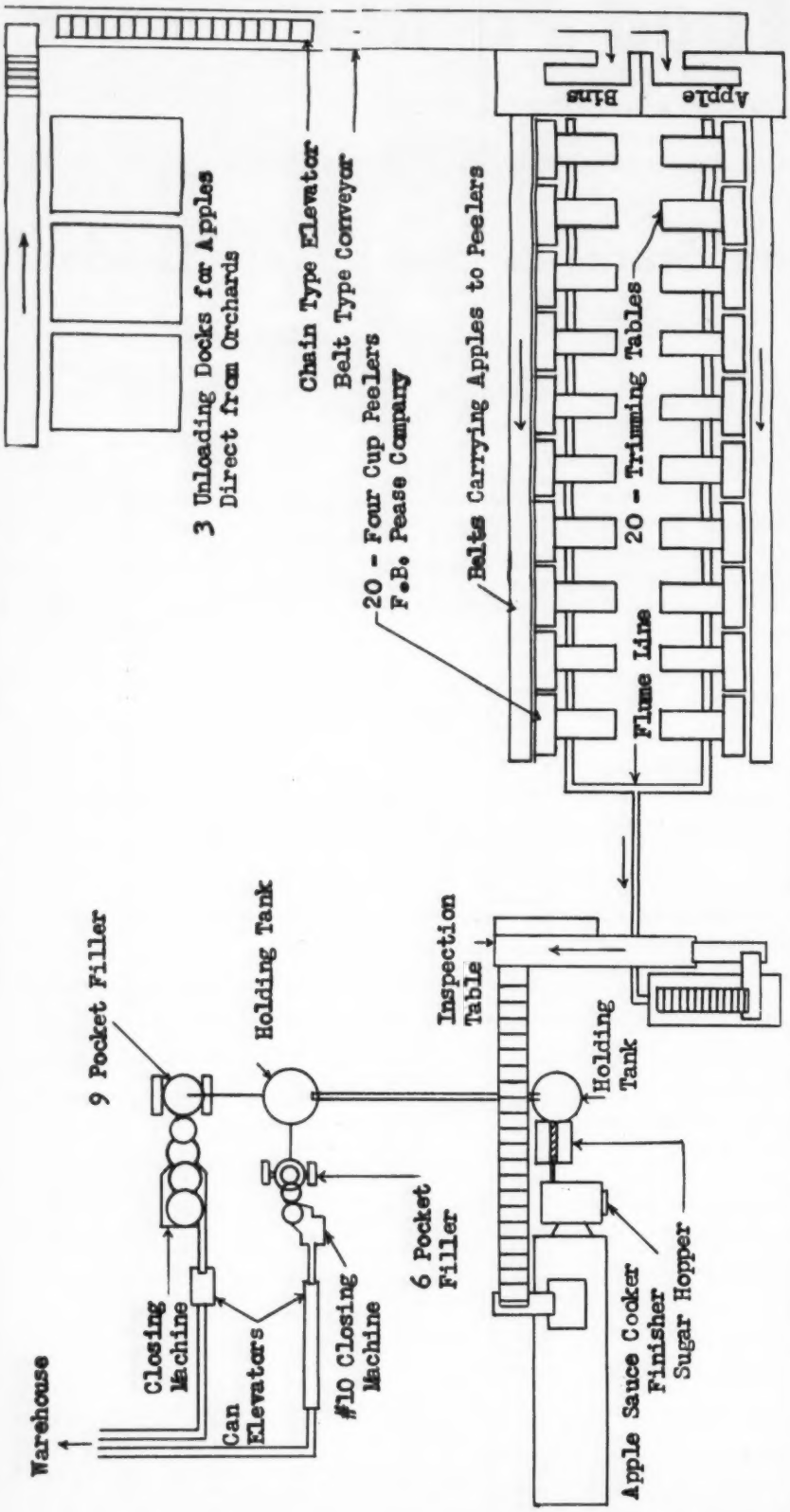
## INDEX

### Canning

| | Flow Chart | Equipment Guide | Pack Trends | Crop Data |
|---|---|---|---|---|
| Apples | | | 90 | |
| Applesauce | 14 | 14 | 90 | |
| Apricots | | | 90 | |
| Asparagus | 15 | 15 | 90 | 92 |
| Beans, dry | 17 | 17 | | |
| Beans, lima | | | 90 | 93 |
| Beans, snap | 16 | 16 | 90 | 92 |
| Beans, wax | 16 | 16 | 90 | 92 |
| Beets | | | 90 | 93 |
| Berries | | | 90 | |
| Carrots | | | 90 | |
| Catsup | 20 | 20 | 90 | |
| Cherries, RSP | 21 | 21 | 90 | |
| Corn, cream style | 23 | 23 | | |
| Cranberry Sauce | | | 90 | |
| Fruit Cocktail | 25 | 25 | 90 | |
| Olives | | | 90 | |
| Peaches | 26 | 26 | 90 | |
| Pears | | | 90 | |
| Peas | 27 | 27 | 90 | 94 |
| Pickles | 28 | 28 | | |
| Pineapple | 29 | 29 | 90 | |
| Plums, purple | | | 90 | |
| Preserves | 31 | 31 | 90 | |
| Pumpkin | 32 | 32 | 90 | |
| Sauerkraut | 33 | 33 | 90 | |
| Spinach | | | 90 | |
| Sweet Potatoes | 36 | 36 | 90 | |
| Tomatoes | 37 | 37 | 90 | 94 |
| Tomato Juice | 37 | 37 | 90 | |
| Tomato Puree | | | 90 | |
| Vegetables, Mixed | 38 | 38 | | |

### Freezing

| | | | | |
|---|---|---|---|---|
| Apples | | | 91 | |
| Apricots | | | 91 | |
| Asparagus | | | 91 | 92 |
| Beans, Fordhook limas | | | 91 | 93 |
| Beans, baby limas | | | 91 | 93 |
| Beans, snap | | | 91 | 92 |
| Berries, Blackberries | | | 91 | |
| Berries, Blueberries | | | 91 | |
| Berries, Strawberries | 36 | 36 | 91 | |
| Broccoli | 19 | 19 | 91 | |
| Brussels Sprouts | | | 91 | |
| Carrots | | | 91 | |
| Cauliflower | | | 91 | |
| Cherries, RSP | 21 | 21 | | |
| Citrus Juice, concentrated | 22 | 22 | | |
| Corn, whole kernel | 24 | 24 | 91 | 93 |
| Grapes and pulp | | | 91 | |
| Peaches | 26 | 26 | 91 | |
| Peas | 27 | 27 | 91 | 94 |
| Potatoes, french fried | 30 | 30 | 91 | |
| Pumpkin | | | 91 | |
| Spinach | 34 | 34 | 91 | |




# Applesauce

**CANNED**

## Suggested basic equipment

**CAPACITY:**

17,000 lbs. raw fruit per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Trimming and Inspection Belts | A 26, 27, 28, 30 | 23 | 7 |
| Peelers—4 cups | A 115 | 20 | 10 |
| Inspection tables | A 26, 27, 28, 30, 33, 35 | 1 | 4 |
| Chopper | A 14 | 1 | 5 |
| Cooker | A 36 | 1 | 2 |
| Sugar machine | A 61, 62, 146 | 1 | 1½ |
| Holding tanks | A 147, 148, 149 | 2 | 4 |
| Filler | A 75, 76, 77, 78 | 2 | 4 |
| Closing machine | F 3, 26 | 3 | 9 |
| Chain elevators | A 27, 30, 32 | 3 | 15 |
| Vertical elevator | A 27, 31, 32 | 1 | 3 |

**For Additional Listings on:**


**Conveyors** ..... **see page 35**

**Inspection Belts** ..... **see page 35**

**Cooling Tables** ..... **see page 32**

**Flumes, washers** ..... **see page 32**


(*Courtesy Shenendoah Valley Apple Cider and Vinegar Corp.*)

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Checkweight Scales | A 131 |
| Drained Weight Scales | G 23 |
| Thermometer | G 25 |
| Vacuum Gauge | G 27 |
| Viscosity Instruments | G 28 |
| Head Space Gauge | G 14 |

# Asparagus

## CANNED AND FROZEN

### Suggested basic equipment

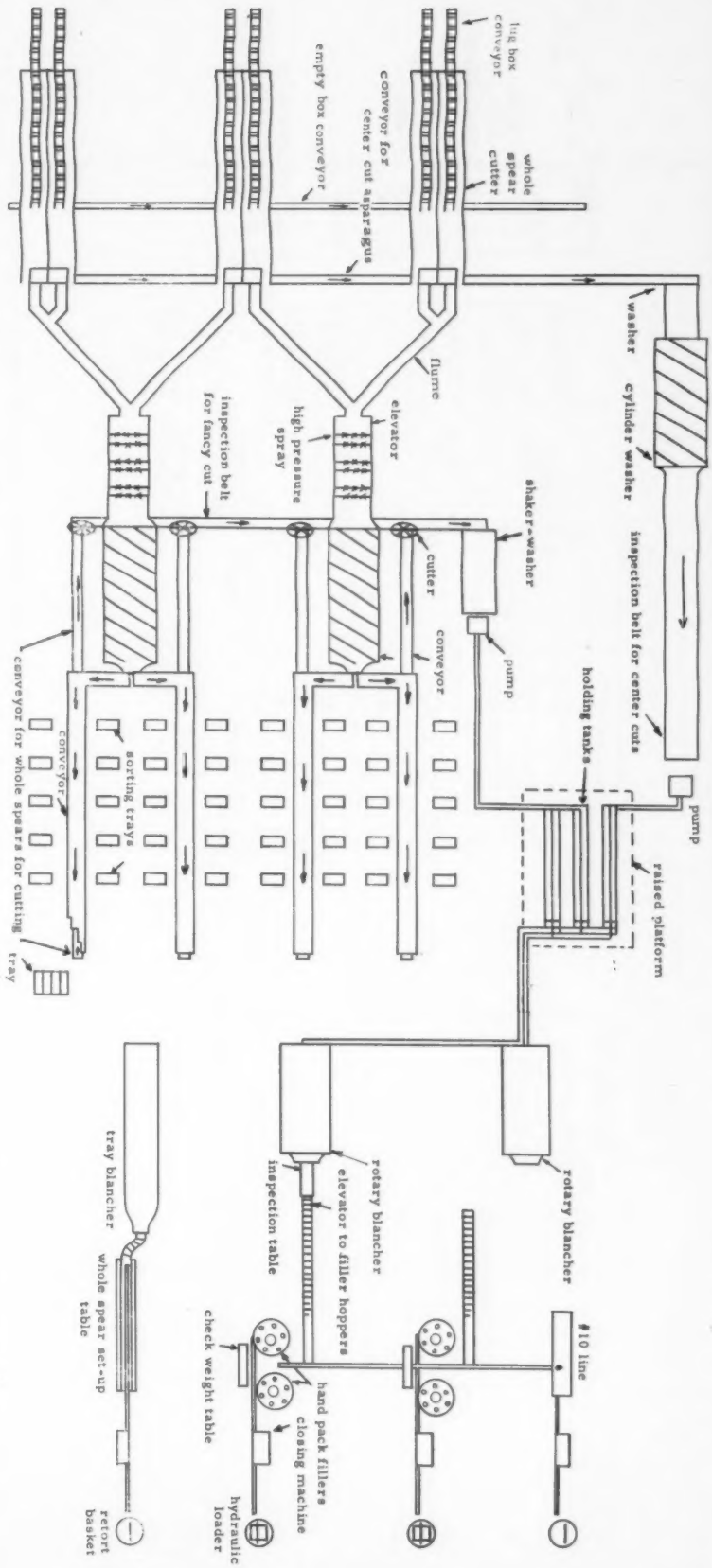
**CAPACITY:**

20,000 lbs.
raw product per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Holding Tanks | A 147, 148, 149 | 3 | — |
| Spray Washer | A 160 | 2 | 30 |
| Unloading Tables | A 30, 32 | 6 | 3 |
| Spear Cutter | A 48 | 3 | 3 |
| Tray Blancher | A 7 | 1 | 2 |
| Sorting Tables | A 30 | 4 | 2 |
| Packing Table | A 30 | 1 | 2 |
| Checkweight Scales | A 131 | 3 | — |
| Cutters | A 48 | 4 | 3 |
| Shaker-Washer | A 160 | 1 | 1 |
| Rotary Blanchers | A 7 | 2 | 3 |
| Cylinder Washer | A 160 | 1 | ½ |
| Hydro Pump | A 121 | 2 | 10 |
| Inspection Belts | A 30, 32 | 3 | 1½ |
| Filler | A 75, 76, 77 | 4 | 1½ |
| Closing Machines | F 3, 26 | 4 | V |
| Hydraulic Loader | F 9 | 2 | — |
| Retorts and Crates | A 127, 128 | — | — |

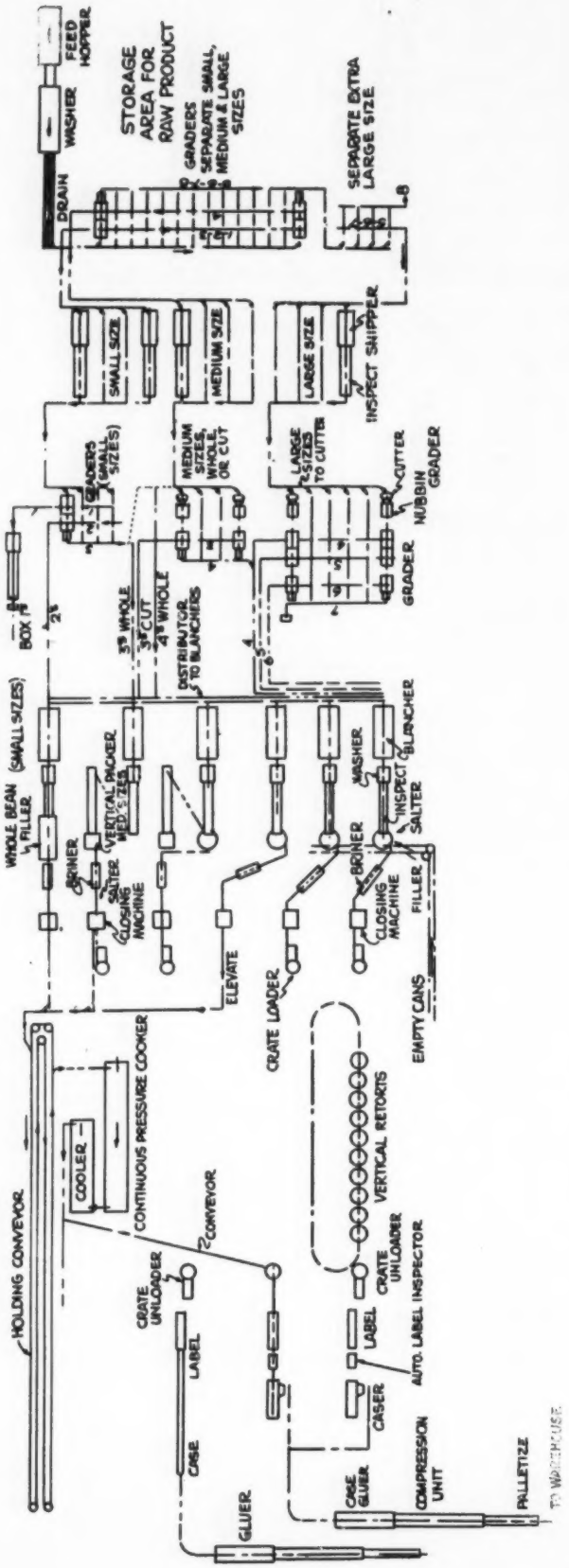
V — Variable

*(Courtesy, Rochelle Asparagus Co.)*




### Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head-Space Gauge | G 14 |
| Thermometers | G 25 |
| Vacuum Gauge | G 27 |




# Beans, Snap

## CANNED

### Suggested basic equipment

**CAPACITY:**

20,000 lbs.
raw product per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Feed Hopper | A 93 | 1 | 2 |
| Washer | A 160 | 1 | 3 |
| Pre-grader | A 86 | 18 | 9 |
| Snippers | A 3 | 12 | 12 |
| Inspection Belt | A 30 | 12 | 6 |
| Grader | A 86 | 13 | 10 |
| Cutters | A 49 | 10 | 7 |
| Nubbin Grader | A 86 | 10 | 3 |
| Blancher | A 7 | 6 | 6 |
| Washer | A 160 | 6 | 4 |
| Inspection Belt | A 30 | 6 | 2 |
| Filler | A 75, 76, 77 | 5 | 5 |
| Packing Table | — | 1 | — |
| Closing Machine | F 3, 26 | 6 | V |
| Crate Loader | F 9 | 2 | — |
| Continuous Cooker-Cooler | A 36, 40 | 1 | 15 |
| Retorts | A 128 | 10 | — |
| Crate Unloader | F 6 | 2 | — |
| Caser | F 18 | 3 | 3 |
| Case Sealer | F 20 | 2 | 1 |

(*Courtesy Northwest Packing Co.*)

### Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head-Space Gauge | G 14 |

# Beans, Dry

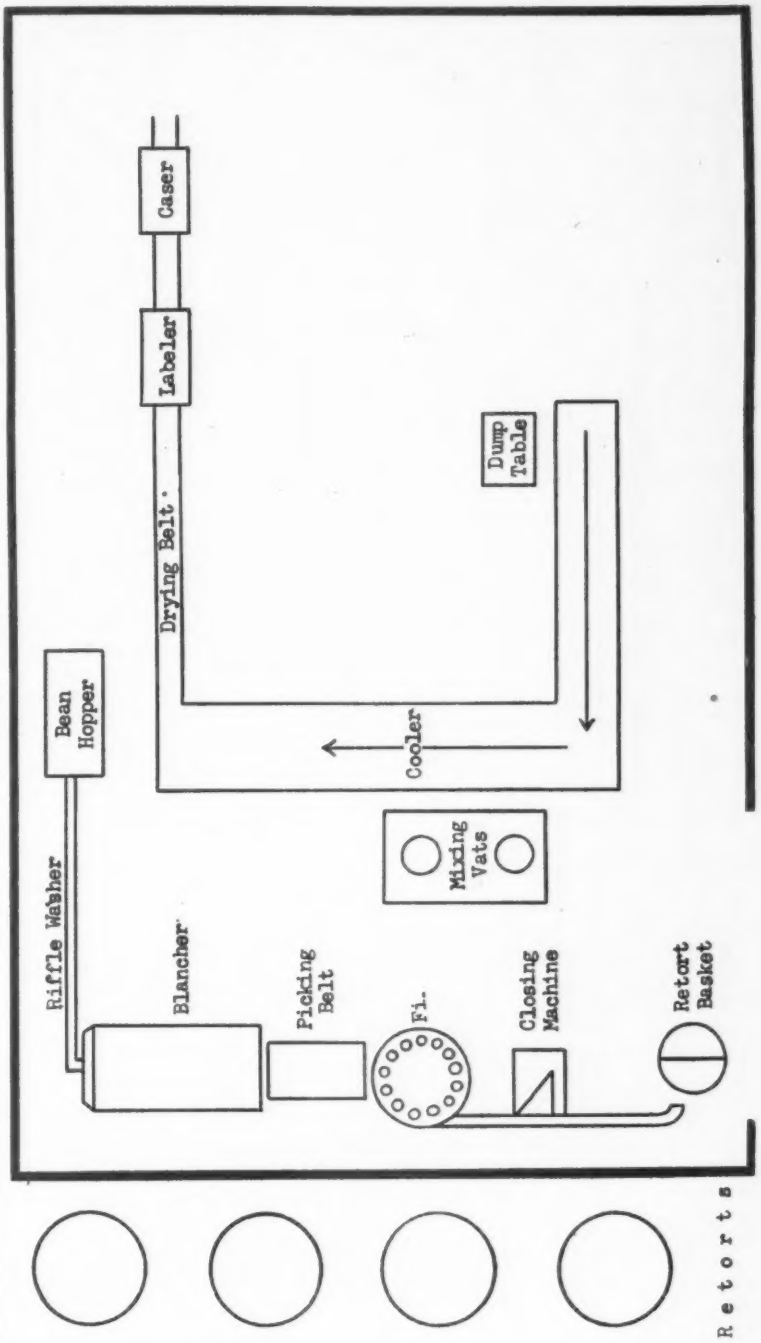
## CANNED

### Suggested basic equipment

**CAPACITY:**
2,000 cases
per 8 hr. day

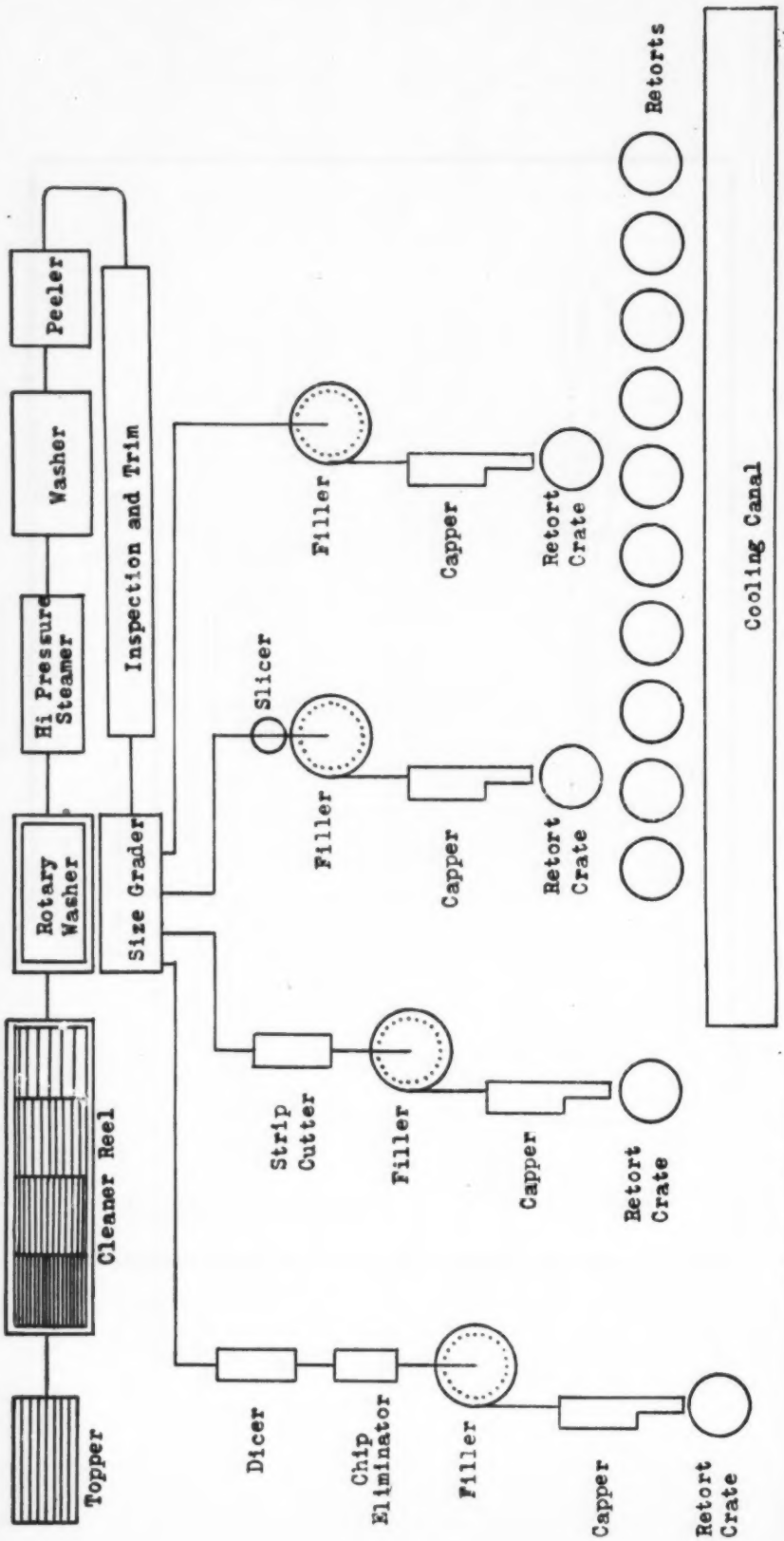
| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| **Bean Hopper** | A 93 | 1 | — |
| **Blancher** | A 7 | 1 | 1 |
| **Picking Belt** | A 30 | 1 | ¼ |
| **Filler** | A 75 | 1 | 2 |
| **Closing Machine** | F 3 | 1 | 3 |
| **Mixing Vats, Agitators** | A 1, 109, 100 | 2 | ¼ |
| **Cooler** | — | 1 | 2 |
| **Drying Belt** | A 30, 32 | 1 | ½ |
| **Labeler** | F 43 | 1 | ¼ |
| **Caser** | A 18 | 1 | 1 |

*(Courtesy, Kenneth N. Rider Co., Inc.)*




### Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| **Center Temperature Device** | G 4 |
| **Grading Lights** | G 9 |
| **Grading Scales** | G 23 |
| **Grading Screens** | G 13 |
| **Head Space Gauges** | G 14 |




# Beets

**CANNED**

## Suggested basic equipment

**CAPACITY:**

10,000 lbs.
raw product
per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Topper | A 50 | 1 | 2 |
| Cleaner Reel | A 15, 160 | 1 | 5 |
| Rotary Washer | A 160 | 1 | 2 |
| Hi-pressure Steamer | A 130 | 1 | 3 |
| Washer | A 160 | 1 | 1 |
| Peeler | A 115 | 1 | 5 |
| Inspection Belt | A 30, 32 | 1 | 1 |
| Size Grader | A 86 | 1 | 1 |
| Dicer | A 57 | 1 | 2 |
| Strip Cutter | A 54 | 1 | 1 |
| Slicer | A 137 | 1 | 1 |
| Fillers | A 75, 76, 77 | 4 | V |
| Cappers | F 3, 26 | 4 | 8 |

V — Variable

**For Additional Listings on:**

Conveyors ..... see page 35
Inspection Belts ..... see page 35
Cooling Tables ..... see page 32
Flumes, washers ..... see page 32

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screen | G 13 |
| Color Instrument | G 7 |
| Headspace Gauge | G 14 |
| Thermometers | G 25 |
| Vacuum Gauge | G 27 |

# Broccoli

**FROZEN**

## Suggested basic equipment

**CAPACITY:**

5,000 lbs.
raw product
per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Washer | A 160 | 3 | 45 |
| Trimming and Inspection Belts | A 30, 32 | 2 | 1 |
| Blancher | A 7 | 1 | 3 |
| Spray Cooler | A 41 | 1 | 25 |
| Dewatering Conveyor | A 125 | 1 | 5 |
| Packing Tables | A 30, 32 | 1 | 1 |
| Checkweight Scales | A 131 | 12 | — |
| Carton Closer | F 12 | 1 | — |
| Wrapping Machine | F 73 | 1 | 1 |
| Freezer | E 21, 23, 25 | 1 | V |

V — Variable

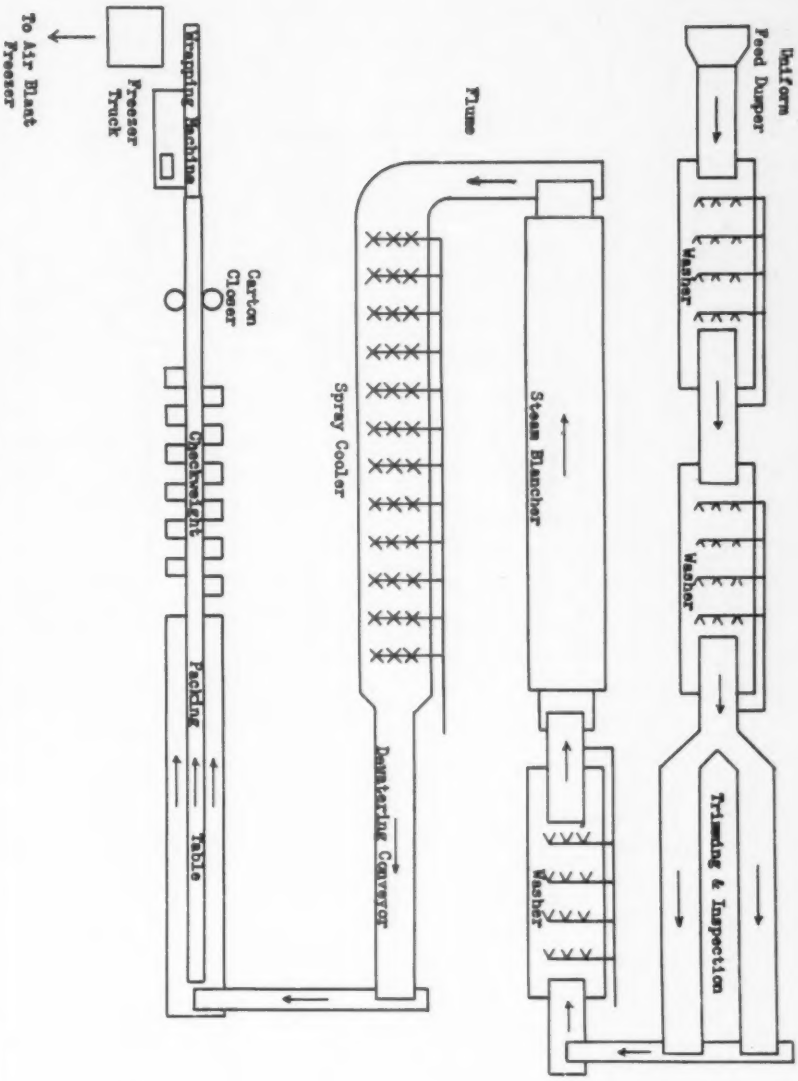

**For Additional Listings on:**

**Conveyors** ..... **see page 35**

**Inspection Belts** ..... **see page 35**

**Cooling Tables** ..... **see page 32**

**Flumes, washers** ..... **see page 32**


## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Thermometers | G 25 |

## Field Supplies: Section C of Buyers' Guide

Berry baskets, power sprayers and 20 other listings are included in Section C of the Buyers' Guide. The items are arranged alphabetically with names and addresses of suppliers under each item.

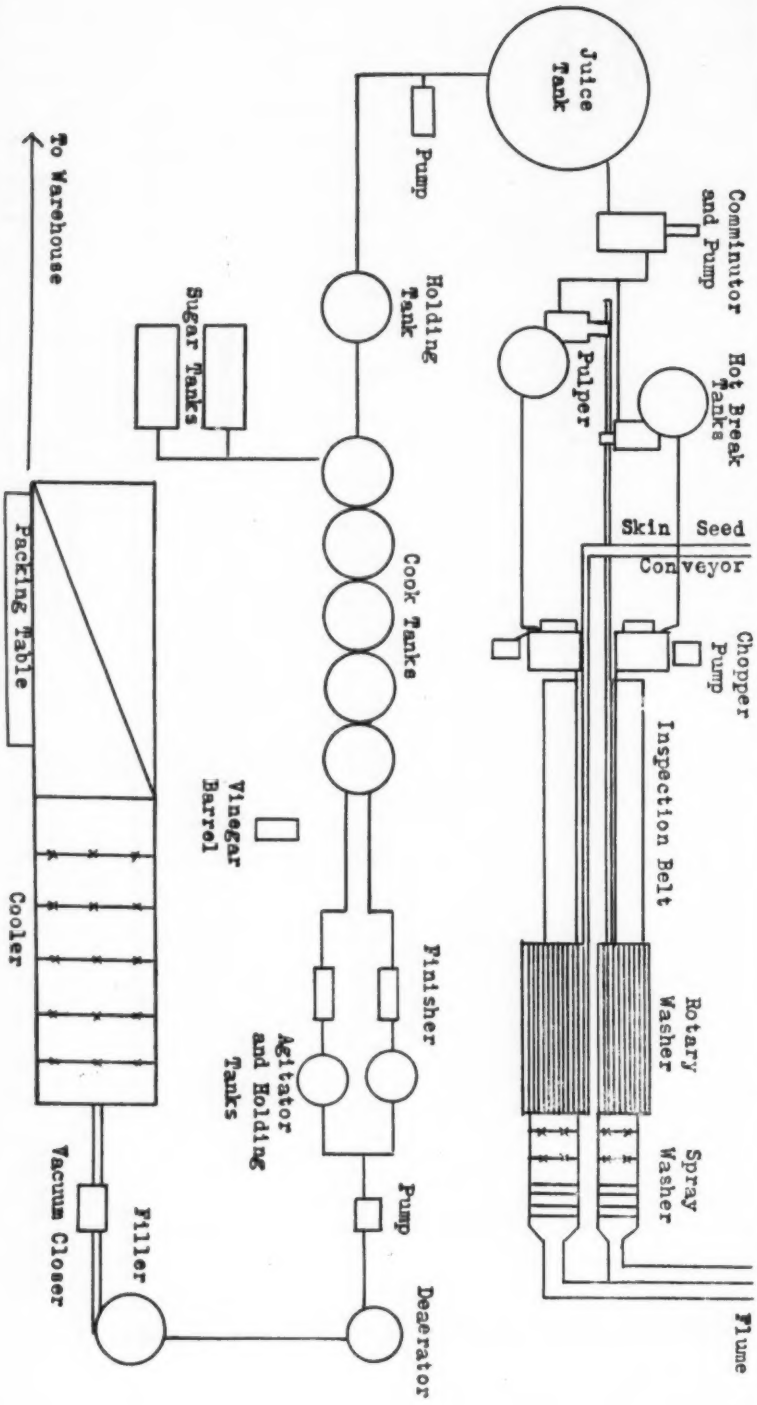

**Section C: Field Machinery and Supplies.**
**—See Pages 65-70**

# Catsup

## Suggested Basic equipment

**CAPACITY:**

24,000 lbs.
raw product
per hour




| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Spray Washer, elevator | A 32, 160 | 2 | 30 |
| Rotary Washer | A 160 | 2 | 3 |
| Inspection Belt | A 30, 32 | 2 | 1½ |
| Chopper and Pump | A 121 | 2 | 15 |
| Pulper | A 120 | 2 | 6 |
| Comminutor and Pump | A 121, 17 | 1 | 15 |
| Juice Tank | A 147, 148 | 1 | — |
| Pump | A 123 | 1 | ¾ |
| Holding Tank | A 147, 148 | 1 | — |
| Cook Tanks | A 139 | 5 | — |
| Finisher | A 73 | 2 | 30 |
| Holding Tank with Agitator | A 2, 109, 147, 148 | 2 | 1 |
| Rotary Pump | A 123 | 1 | 1 |
| Deaerator | A 56 | 1 | — |
| Filler | A 75, 76 | 1 | — |
| Closing Machine | F 3, 26 | 1 | 2 |
| Cooler | A 41 | 1 | 3 |

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Color Instruments | G 7 |
| Consistency Instruments | G 8 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Miscroscopes | G 18 |
| Mold Count Equipment | G 20 |
| Refractometers | G 22 |
| Specific Gravity Equipment | G 24 |
| Thermometers | G 25 |
| Viscosity Instruments | G 28 |

# RSP Cherries

**CANNED AND FROZEN**

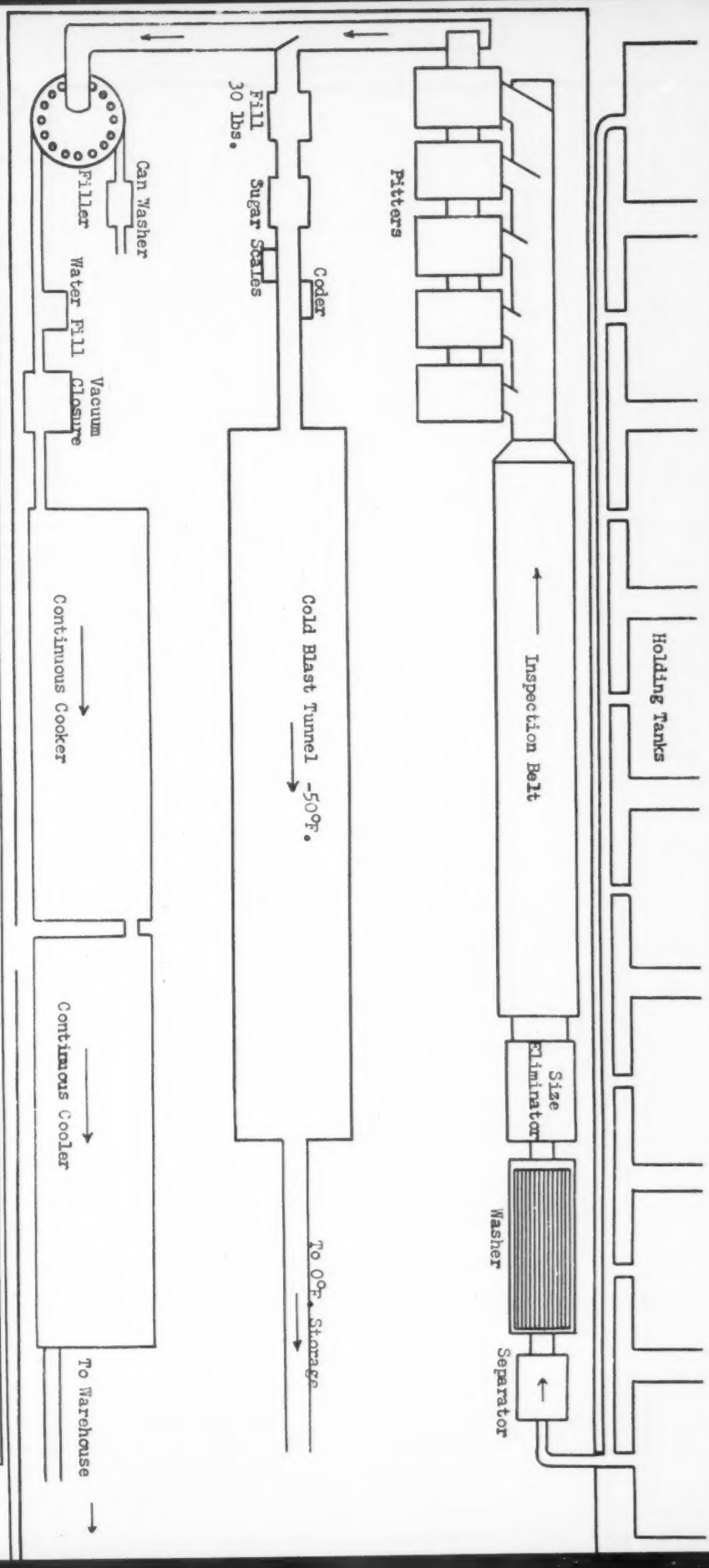
## Suggested basic equipment

**CAPACITY:**

10,000 lbs.
per hour

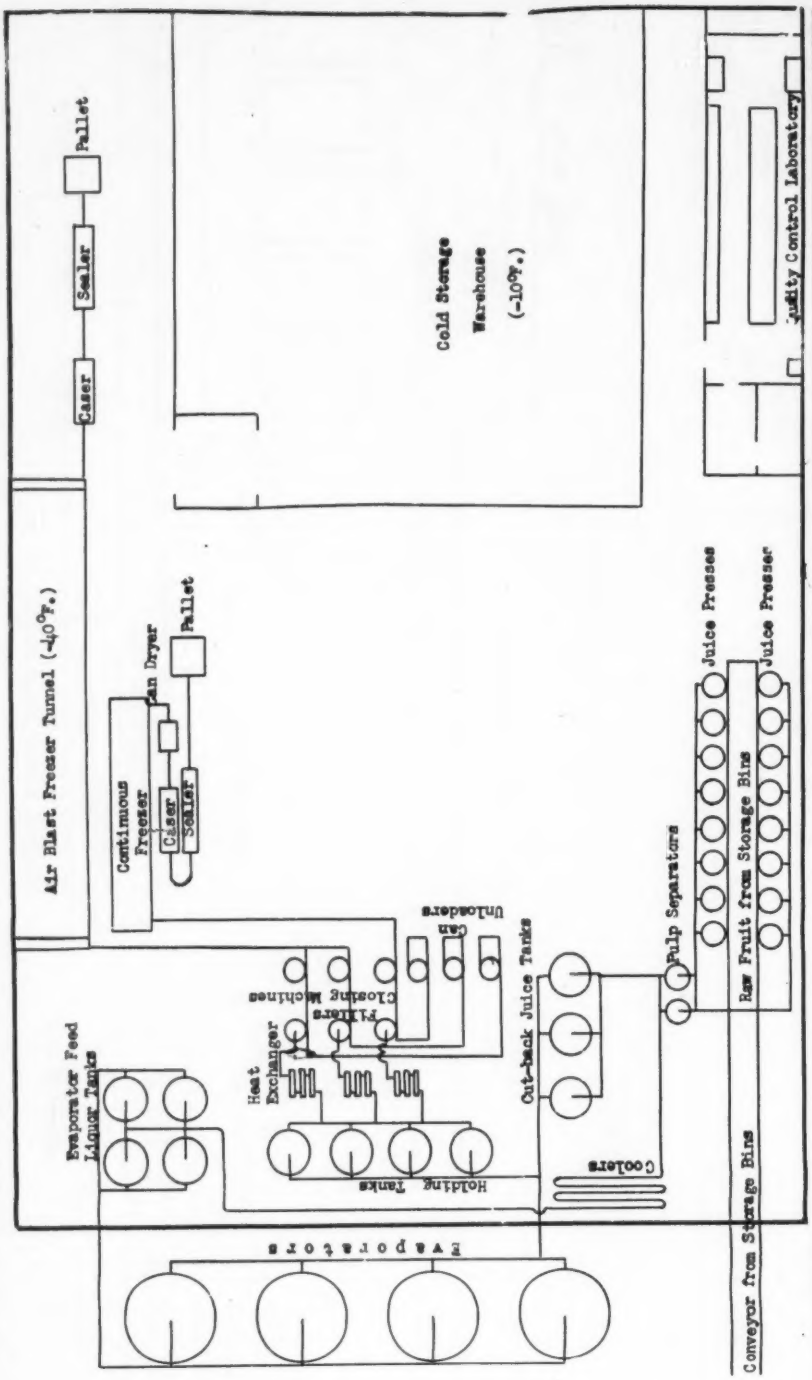
| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| **Holding Tanks** | A 147, 148, 149 | 8 | — |
| **Separator** | A 125 | 1 | ½ |
| **Washer** | A 160 | 1 | 1½ |
| **Size Eliminator** | A 85 | 1 | 1 |
| **Inspection Belt** | A 30 | 1 | 2 |
| **Pitters** | A 118 | 5 | 7½ |
| **Container Washer** | F 7 | 1 | ¼ |
| **Filler** | A 77 | 1 | 1 |
| **Closing Machine** | F 3 | 1 | V |
| **Continuous Cooker** | A 36 | 1 | V |
| **Continuous Cooler** | A 40 | 1 | V |
| **Air Blast Freezer Tunnel** | E 21, 25 | 1 | V |
| **Code Dating Equipment** | F 32 | 1 | ¼ |

V — Variable




## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| **Center Temperature Measuring Device** | G 4 |
| **Grading Lights** | G 9 |
| **Grading Scales** | G 23 |
| **Grading Screens** | G 13 |
| **Head-Space Gauge** | G 14 |
| **Hydrometer** | G 15 |
| **Vacuum Gauge** | G 27 |




# Citrus Juices

**CONCENTRATED FROZEN**

## Suggested basic equipment

**CAPACITY:**

15,000 Cases
(48-6 oz.)
per 24 hours

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Juice Presses | A 73 | 16 | 40 |
| Pulp Separators | A 133, 135 | 2 | 6 |
| Cut-Back Juice Tanks | A 148 | 3 | — |
| Coolers | A 41 | 1 | 1 |
| Holding Tanks | A 148 | 4 | — |
| Heat Exchangers | A 89 | 3 | 7½ |
| Fillers | A 75 | 3 | — |
| Closing Machines | F 3 | 3 | 3 |
| Can Unloaders | F 6 | 3 | ¾ |
| Evaporators | A 71 | 4 | 320 |
| Feed Liquor Tanks | A 148 | 4 | — |
| Continuous Freezer | E 24 | 1 | V |
| Caser | F 18 | 2 | 1 |
| Sealer | F 20 | 2 | 1 |
| Air Blast Tunnel | E 21, 25 | 1 | V |

V — Variable

**For Additional Listings on:**

Conveyors ..... see page 35
Inspection Belts ..... see page 35
Cooling Tables ..... see page 32
Flumes, washers ..... see page 32

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Hydrometer | G 15 |
| Incubators | G 16 |
| Microscope | G 18 |
| Mold Counting Equipment | G 20 |
| pH and Acid Content Equipment | G 17 |
| Refractometer | G 22 |
| Thermometers | G 25 |
| Vacuum Gauge | G 27 |

## Food Ingredients in Section B of Buyers' Guide

Suppliers of Seasonings, Salt, Sugar, Coloring, Flavoring, are listed in Section B of the Buyers' Guide. A total of 55 listings in alphabetical order include items from Monosodium Glutamate (B 26) to Vinegar—White (B 55).

**Section B: Food Ingredients, and Additives.**

**— See Pages 62-65**

# Sweet Corn

**CANNED CREAM STYLE**

## Suggested basic equipment

**CAPACITY:**

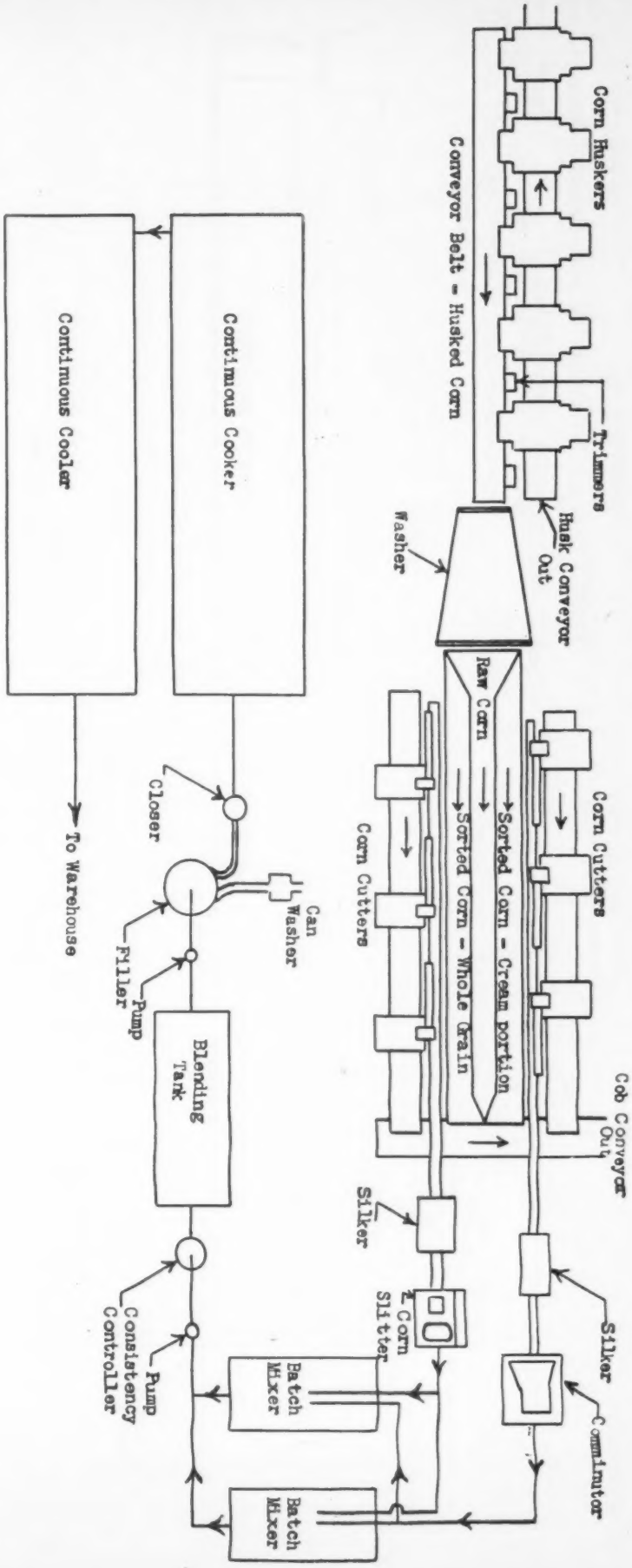
20,000 lbs.
raw product
per hour

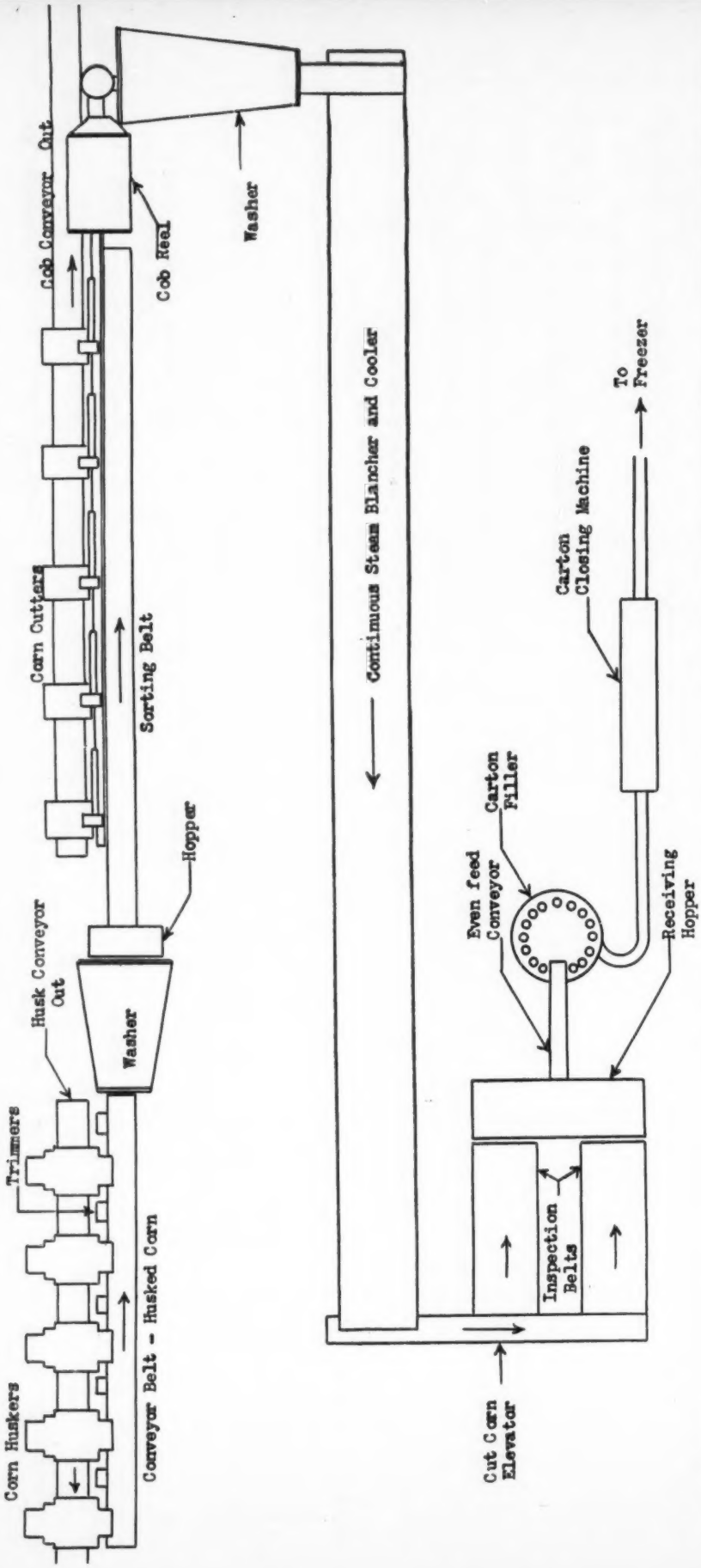
| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Corn Huskers | A 44 | 5 | 15 |
| Corn Trimmers | A 51 | 5 | 2½ |
| Corn Washer | A 160 | 1 | 2 |
| Inspection Belt | A 30 | 1 | ½ |
| Corn Cutter | A 51 | 6 | 9 |
| Silker | A 133 | 2 | 4 |
| Corn Slitter | A 51 | 1 | 5 |
| Comminuting Machine | A 17 | 1 | 10 |
| Batch Mixer | A 147, 148 | 2 | 2 |
| Agitator | A 2, 109 | | |
| Rotary Pump | A 123 | 3 | 6 |
| Blending Mixer | A 147, 148 | 1 | 1 |
| Can Washer | F 7 | 1 | ¼ |
| Filler | A 75 | 1 | 1½ |
| Can Closing Machine | F 3 | 1 | 5 |
| Continuous Agitating Cooker | A 36 | 1 | 7½ |
| Continuous Agitating Cooler | A 40 | 1 | 7½ |

V — Variable

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Consistometer | G 8 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head-Space Gauge | G 14 |
| Microscope | G 18 |
| Viscosity Instruments | G 28 |
| Refractometer | G 22 |
| Vacuum Gauge | G 27 |






# Sweet Corn

**FROZEN WHOLE KERNEL**

## Suggested basic equipment

**CAPACITY:**

20,000 lbs.
raw product
per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Double Huskers | A 44 | 5 | 15 |
| Sorting Belt | A 30, 32, 33 | 1 | ½ |
| Corn Trimmers | A 51 | 5 | 2½ |
| Washer-husked Ears | A 160 | 1 | 2 |
| Cutters | A 51 | 5 | 7½ |
| Cob Reel | A 160 | 1 | 1 |
| Washer, Cut Corn | A 160 | 1 | 3 |
| Inspection Belt | A 30 | 2 | 2 |
| Steam Blancher and Cooler | A 7 | 1 | 5 |
| Carton Filler and Closing Machine | F 11, 12 | 1 | 1½ |

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head-Space Gauge | G 14 |
| Microscope | G 18 |
| Refractometer | G 22 |
| Vacuum Gauge | G 27 |

# Fruit Cocktail

**CANNED**

## Suggested basic equipment

**CAPACITY:**

8,000 lbs.
per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Shakers | A 133 | 4 | 6½ |
| Pear Peelers | A 115 | 6 | 6 |
| Peach Pitters | A 118 | 6 | 6 |
| Fillers | A 75, 76 | 4 | 7½ |
| Inspection Belts | A 30 | 3 | 1 |
| Dicers | A 57 | 2 | 2 |
| Shaker | A 133 | 1 | 3 |
| Grape Stemmer | A 141 | 1 | ¾ |
| Washer | A 160 | 1 | 2 |
| Pressure Cooker and Cooler | A 36, 40 | 2 | 5 |
| Labler | F 43, 44 | 1 | ¼ |
| Caser | F 18 | 1 | 1 |
| Case Sealer | F 20 | 1 | ½ |

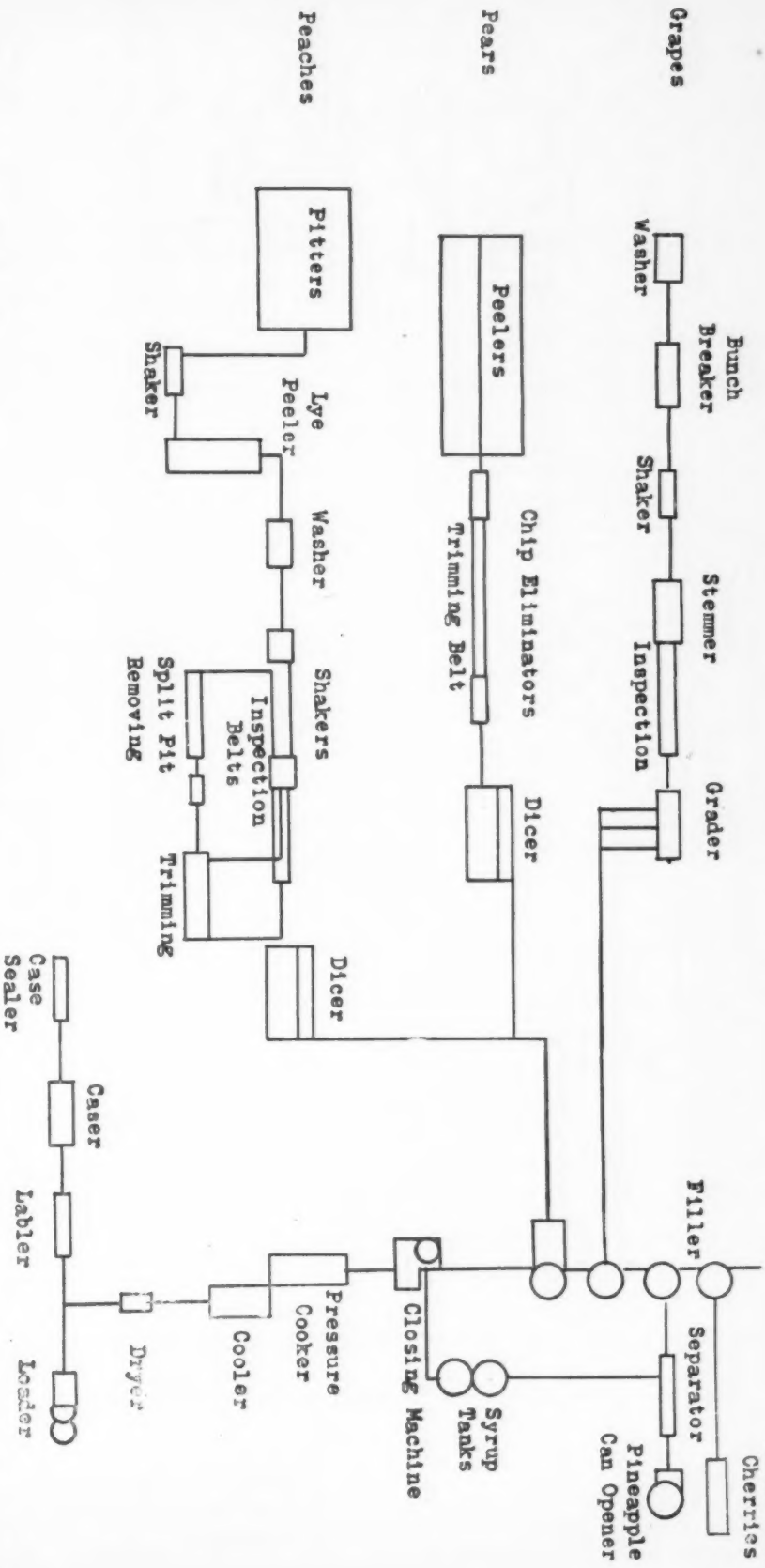

**For Additional Listings on:**

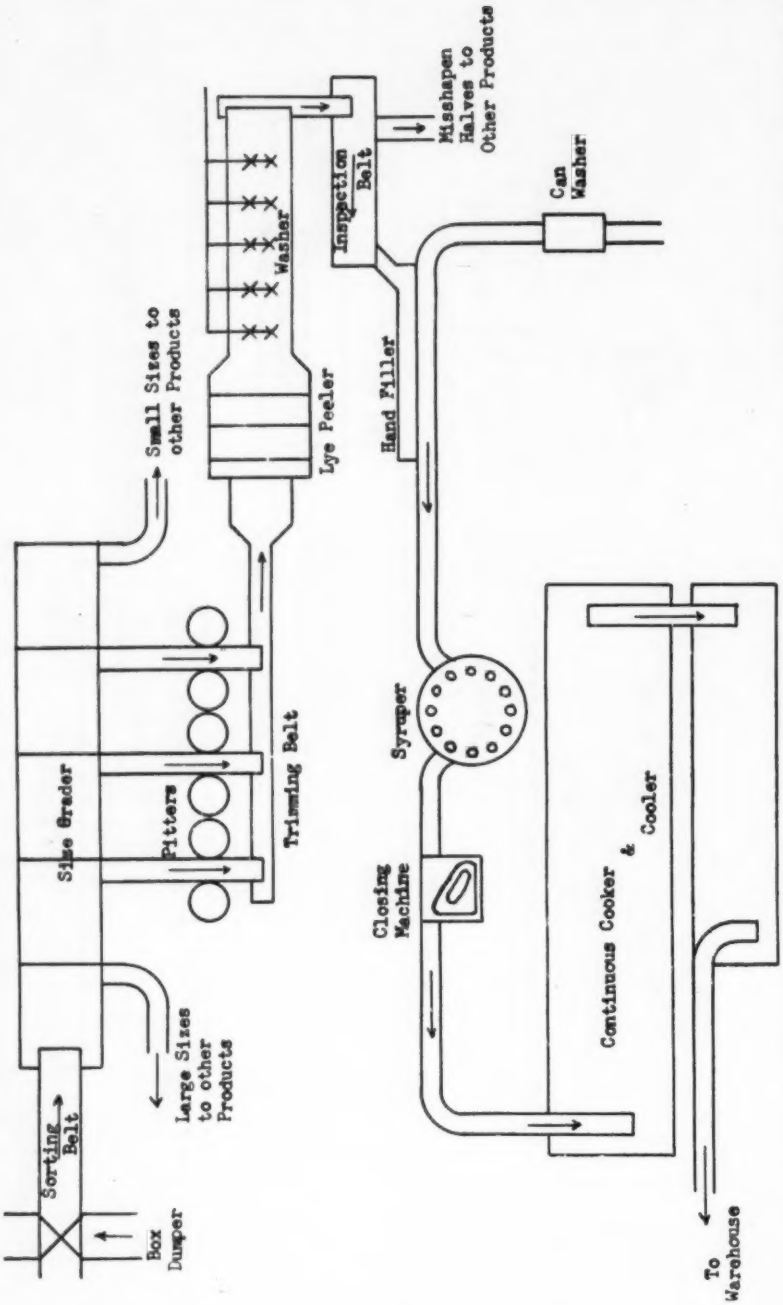
- Conveyors ..... see page 35
- Inspection Belts ..... see page 35
- Cooling Tables ..... see page 32
- Flumes, washers ..... see page 32


*(Fruit Cocktail flow chart redrawn from diagram courtesy Hawaiian Pineapple Co., Ltd., San Jose, Calif.)*

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Can Seam Tester | G 5 |
| Color Instruments | G 7 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head Space Gauge | G 14 |
| Hydrometers | G 15 |
| Vacuum Gauge | G 27 |






# Peaches

## CANNED FANCY PEACH HALVES

### Suggested basic equipment

**CAPACITY:**

8,000 lbs.
raw product
per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Size Grader | A 85 | 1 | 7½ |
| Pitters | A 118 | 6 | 12 |
| Trimming Belts | A 30, 32 | 1 | ½ |
| Washer | A 160 | 1 | 25 |
| Lye Peeler | A 115 | 1 | 8 |
| Inspection Belts | A 30 | 1 | 1 |
| Container Washer | F 7 | 1 | 1¼ |
| Syruper | A 62, 146 | 1 | 1 |
| Closing Machine | F 3, 26 | 1 | 5 |
| Continuous Cooker and Cooler | A 36, 40 | 1 | 15 |

**For Additional Listings on:**
Conveyors ..... see page 35
Inspection Belts ..... see page 35
Cooling Tables ..... see page 32
Flumes, washers ..... see page 32

### Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Color Instruments | G 7 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head-Space Gauge | G 14 |
| Hydrometer | G 15 |
| Refractometer | G 22 |
| Thermometers | G 25 |
| Vacuum Gauge | G 27 |

## Operating Supplies in Section D Buyers' Guide

Supplies needed inside the plant from soap and paint to fans and diesel engines are listed in Section D of the Buyers' Guide. A total of 70 items listed alphabetically provide the names and addresses of suppliers under each item.

**Section D: Plant Maintenance, Sanitation and Operating Supplies.**
**— See Pages 70-75**

# Peas

**FROZEN AND CANNED**

## Suggested basic equipment

**CAPACITY:**

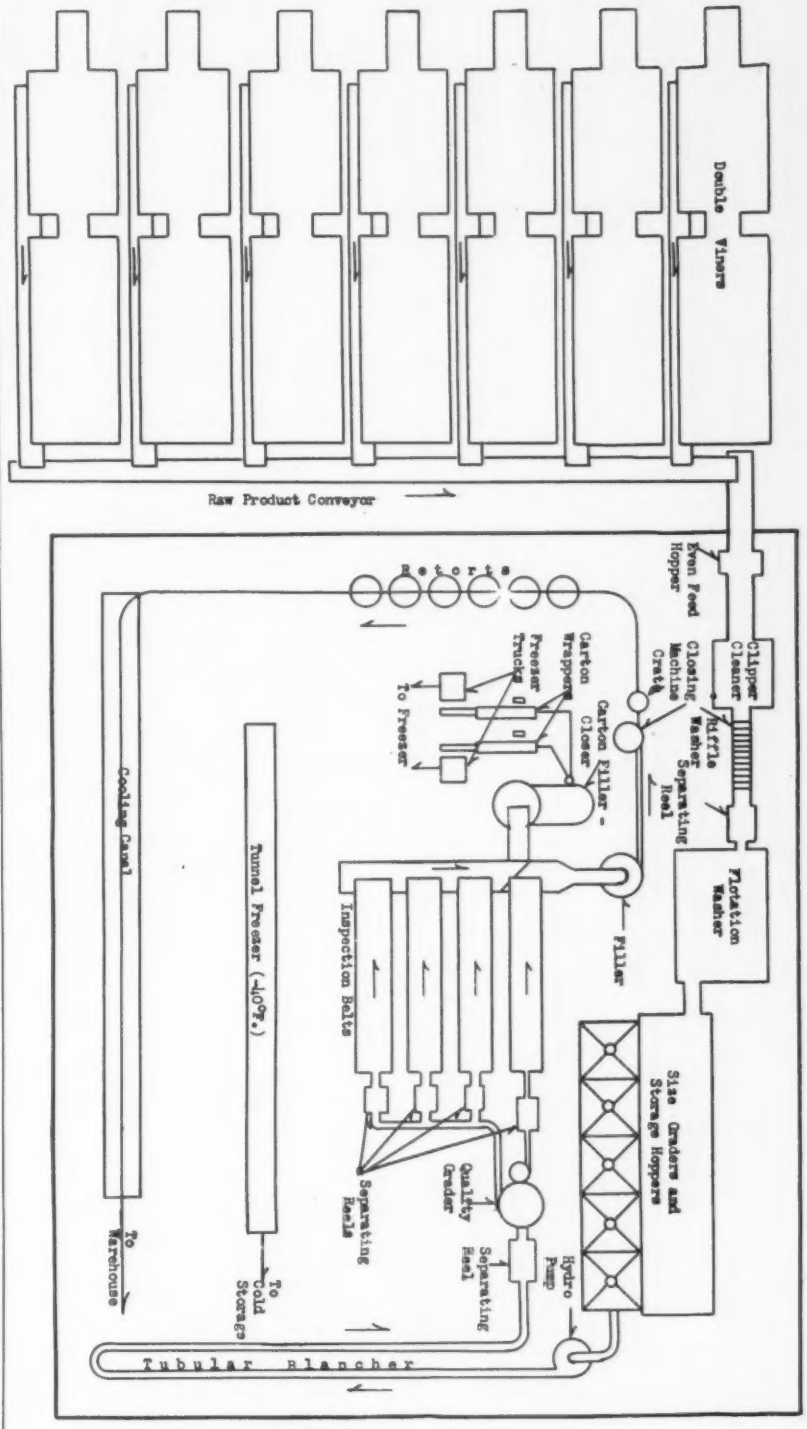
50,000 lbs.
raw product
per 8-hr day

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Viners | C 21 | 7 | 70 |
| Conveyors | A 30, 35 | 5 | 7½ |
| Cleaner | A 15 | 1 | 3 |
| Flotation Washer | A 160 | 1 | 3 |
| Size Grader | A 86 | 1 | 5 |
| Storage Hopper | A 93 | 5 | — |
| Hydro Pump | A 121 | 1 | 1 |
| Tubular Blancher | A 7 | 1 | 1 |
| Quality Separator | A 87 | 1 | 2 |
| Automatic Brine Mixer | A 10 | 1 | 1/3 |
| Separator | A 125 | 6 | 1½ |
| Inspection Table | A 30 | 4 | 2 |
| Filler and Closer (Frozen Pack) | F 11, 12 | 1 | 2 |
| Wrapping Machine | F 73 | 2 | 1 |
| Plate Freezer | E 23 | V | V |
| Filler and Briner | A 58, 69, 129, 75 | 1 | ¾ |
| Closing Machine | F 3 | 1 | 5 |
| Retorts | A 128 | 6 | — |
| Retort Crates | A 127 | 30 | — |


**For Additional Listings on:**
Conveyors ..... see page 35
Inspection Belts ..... see page 35
Cooling Tables ..... see page 32
Flumes, washers ..... see page 32


## Quality Control equipment

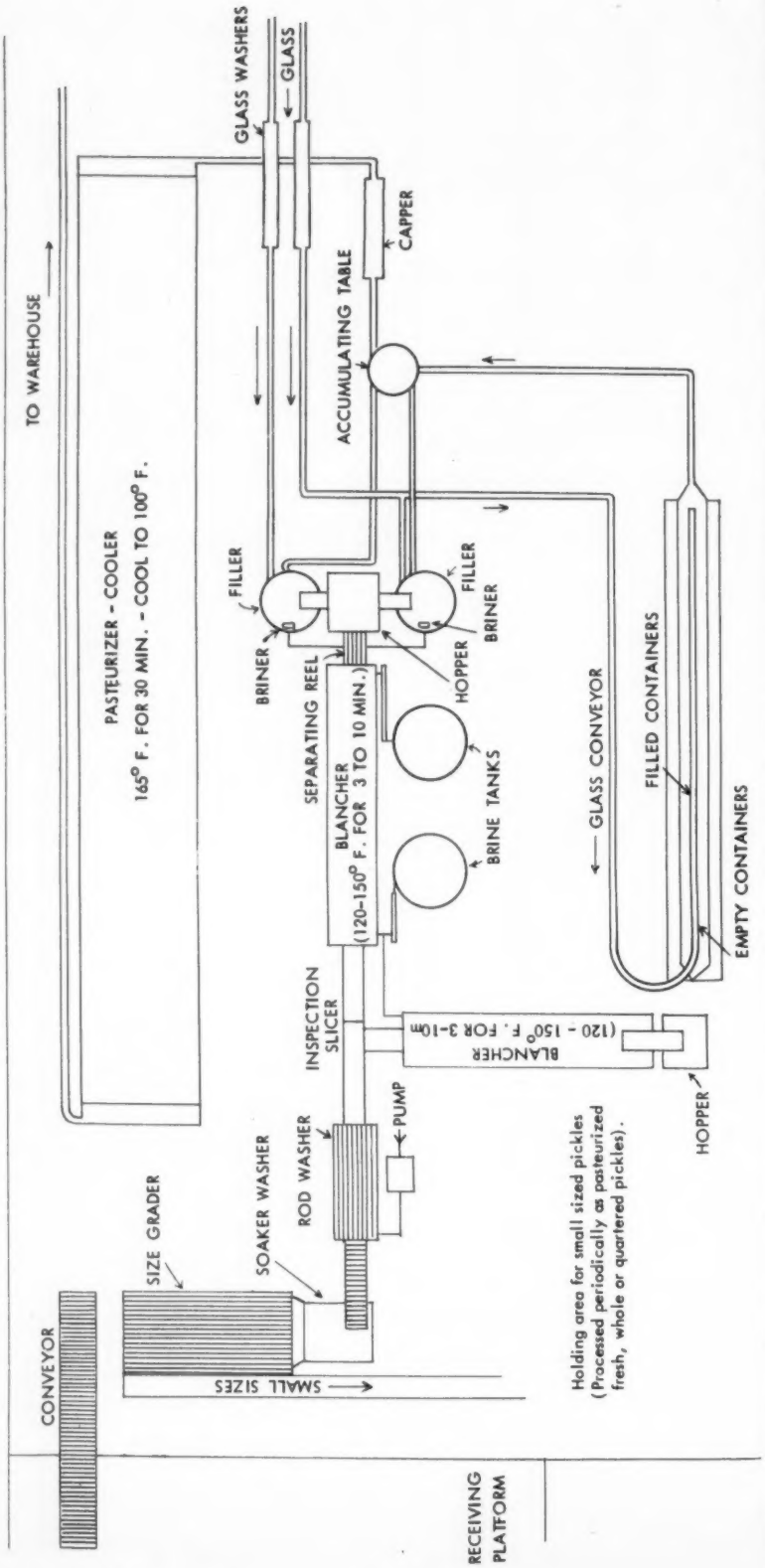
| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Head-Space Gauge | G 14 |
| Hydrometer | G 15 |
| Vacuum Gauge | G 27 |




## Special Services: Section H of Buyers' Guide

A small but important section of the Buyers' Guide is the listing of the additional services in Section H. Nine items are included. Twenty-five companies offer technical help to food processors.


**Section H: Special Services — See Page 86**




# Pickles

**FRESH PACK WHOLE OR SLICED**

## Suggested basic equipment

**CAPACITY:**

1,000 Cases
(24 1-qt)
per 8-hr day

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Size Grader | A 86, | 1 | 3 |
| Soaker Washer | A 160 | 1 | 5 |
| Rod Washer | A 160 | 1 | 2 |
| Slicer | A 137 | 1 | 1 |
| Blancher | A 7 | 2 | 6 |
| Dewatering Reel | A 125 | 1 | 1 |
| Filler | F 3, 26 | 2 | 1 |
| Briner | A 58 | 2 | — |
| Accumulating Table | F 1 | 1 | ½ |
| Capper | F 26 | 1 | 2 |
| Pasteurizer-Cooler | A 113, 114 | 1 | V |
| Glass Washer | F 71 | 2 | 1/3 |
| Inspection Belt | A 30, 32 | 1 | 2 |
| Packing Belt | A 30 | 1 | 3 |

V — Variable

**For Additional Listings on:**


**Conveyors** ..... **see page 35**
**Inspection Belts** ..... **see page 35**
**Cooling Tables** ..... **see page 32**
**Flumes, washers** ..... **see page 32**


## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head-Space Gauge | G 14 |
| pH and Acid Titration Equipment | G 17 |
| Thermometers | G 25 |
| Vacuum Gauge | G 27 |

# Pineapple

**CANNED**

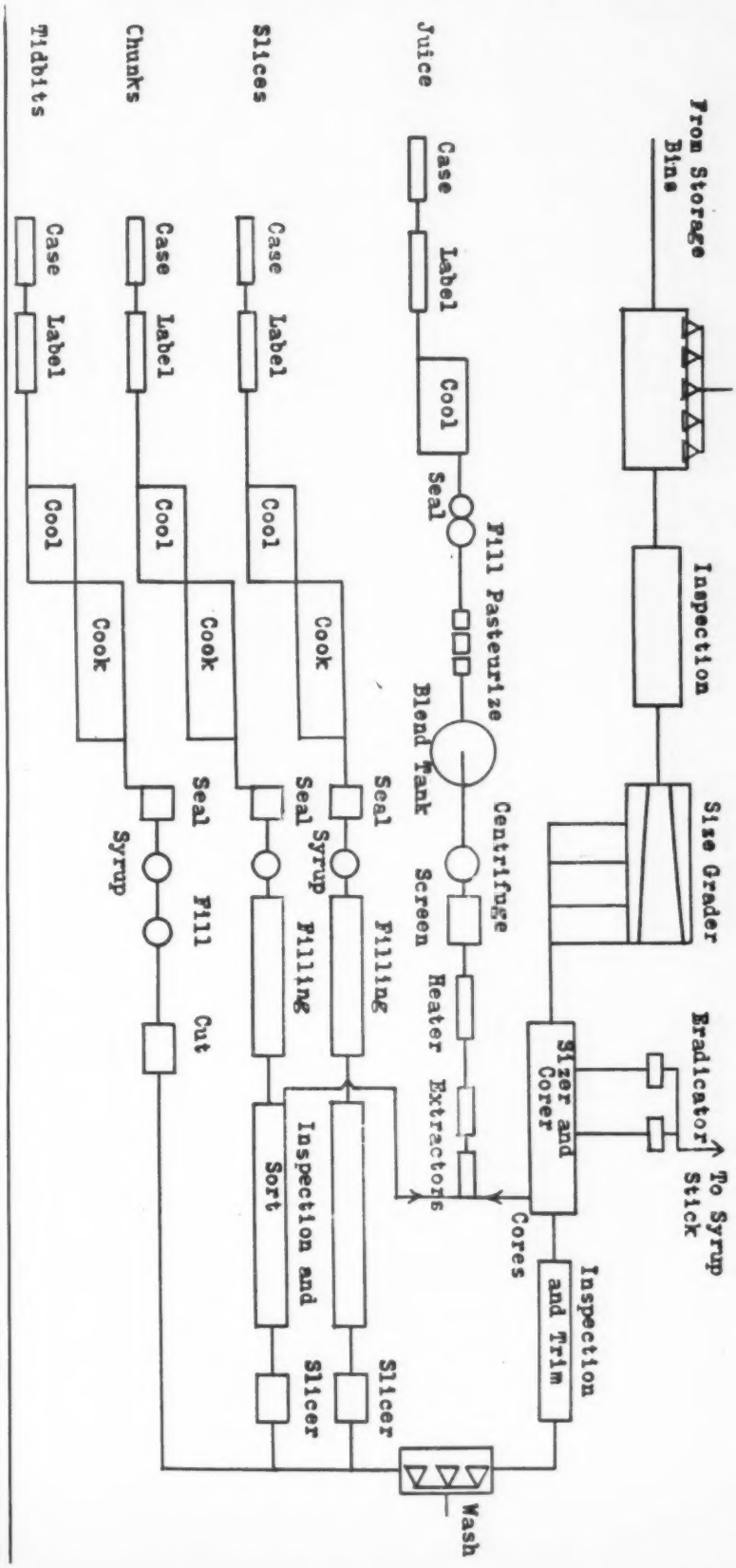
## Suggested basic equipment

**CAPACITY:**

8,000 lbs.
per hour

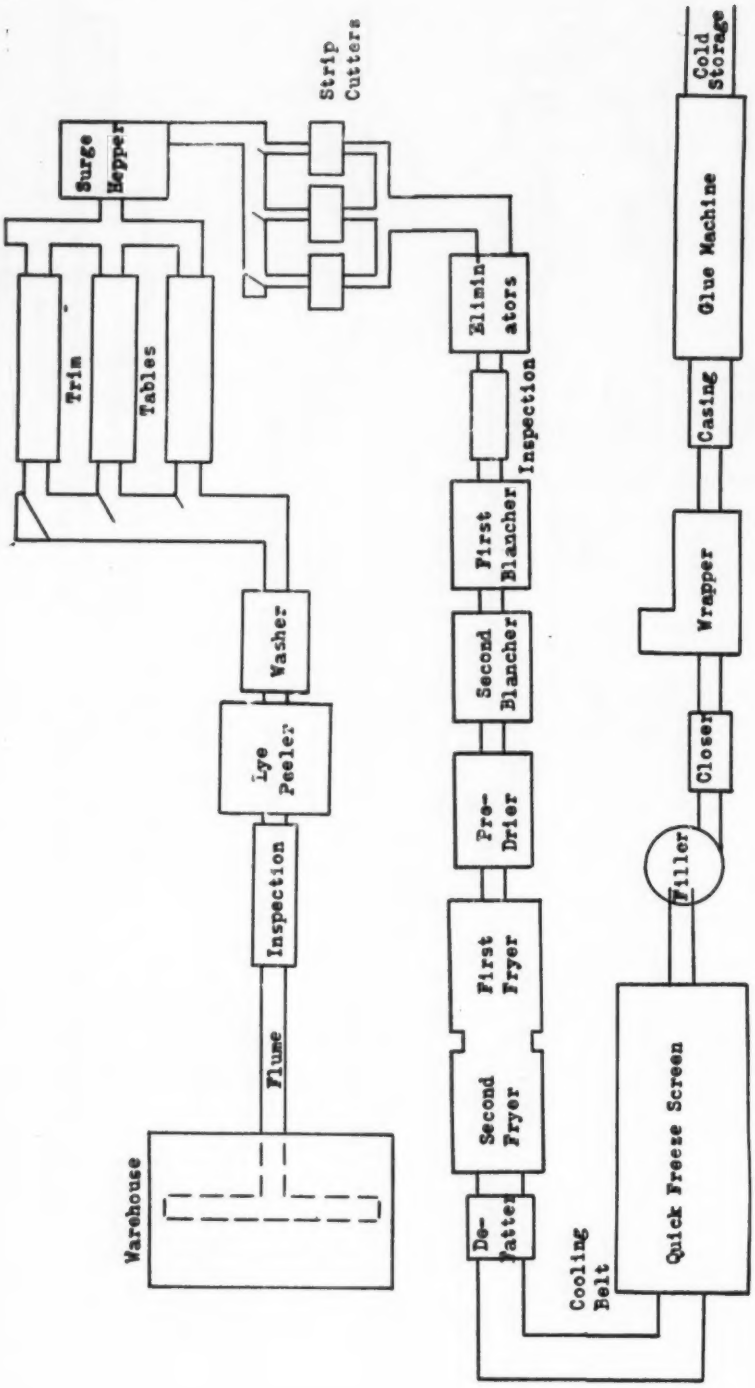
| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Washer | A 160 | 1 | 5 |
| Size Grader | A 86 | 1 | 3 |
| Sizer and Corer | A 42 | 2 | 22 |
| Inspection Belts | A 30, 32 | 3 | 9 |
| Slicers | A 137 | 3 | 6 |
| Cooker-coolers | A 36, 40 | 3 | 15 |
| Fillers | F 3 | 4 | — |
| Syrupers | A 60 | 3 | — |
| Pasteurizers | A 113, 114 | 2 | — |
| Centrifuge | | 1 | 10 |
| Extractors | A 73 | 2 | 30 |

*(Pineapple chart drawn from information and diagrams courtesy Hawaiian Pineapple Co., Ltd., San Jose, Calif., and Pineapple Research Institute of Hawaii, San Francisco, Calif.)*




## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Color Instruments | G 7 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head Space Gauge | G 14 |
| Hydrometers | G 15 |
| Vacuum Gauge | G 27 |




# Potatoes

## FROZEN FRENCH FRIES

### Suggested basic equipment

**CAPACITY:**

4-6,000 lbs.
per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Inspection | A 30, 32 | 5 | 5 |
| Lye Peeler | A 115 | 1 | 2 |
| Washer | A 160 | 1 | 10 |
| Cutters | A 54 | 3 | 6 |
| Eliminator | A 133 | 1 | 1 |
| Blancher | A 7 | 2 | 2 |
| Predrier | A 69 | 1 | 2 |
| Fryer | A 37 | 2 | 6 |
| Freezer | E 21, 23, 24, 25 | 1 | 15 |
| Filler | F 11 | 1 | ¾ |
| Closer | F 12 | 1 | ¾ |
| Wrapper | F 73 | 1 | ½ |
| Caser | F 18 | 1 | ½ |
| Glueing Machine | F 20 | 1 | ½ |

**For Additional Listings on:**


Conveyors ..... see page 35
Inspection Belts ..... see page 35
Cooling Tables ..... see page 32
Flumes, washers ..... see page 32


*(Redrawn from Food Packer, Vol. 36, No. 2, J. R. Simplot Co., Caldwell, Idaho.)*

### Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Hydrometers | G 14 |
| Refractometers | G 22 |
| Specific Gravity Equipment | G 24 |

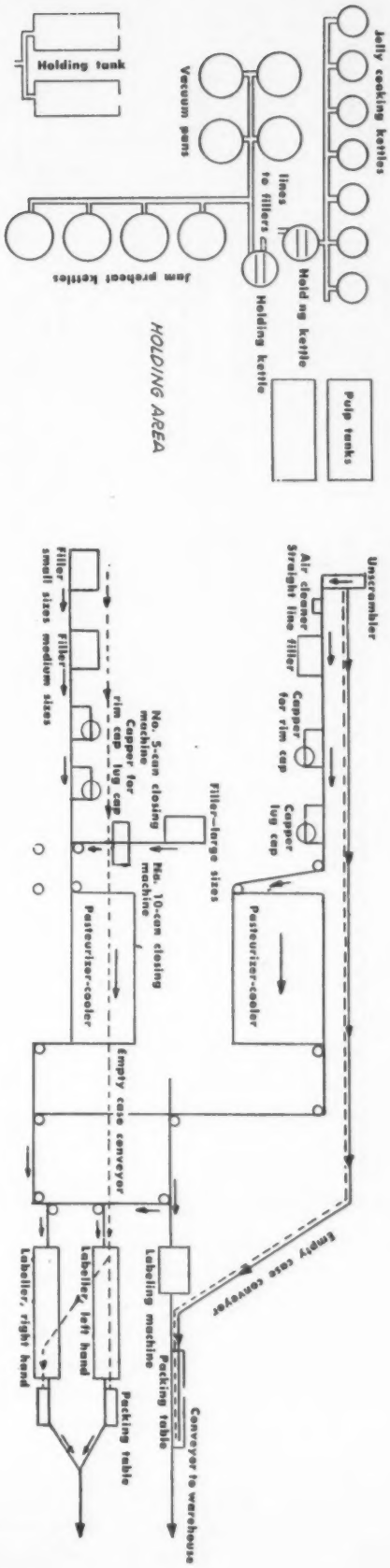
# Preserves

## Suggested basic equipment

**CAPACITY:**
9,000 cases per hour
(24 1-lb cases)

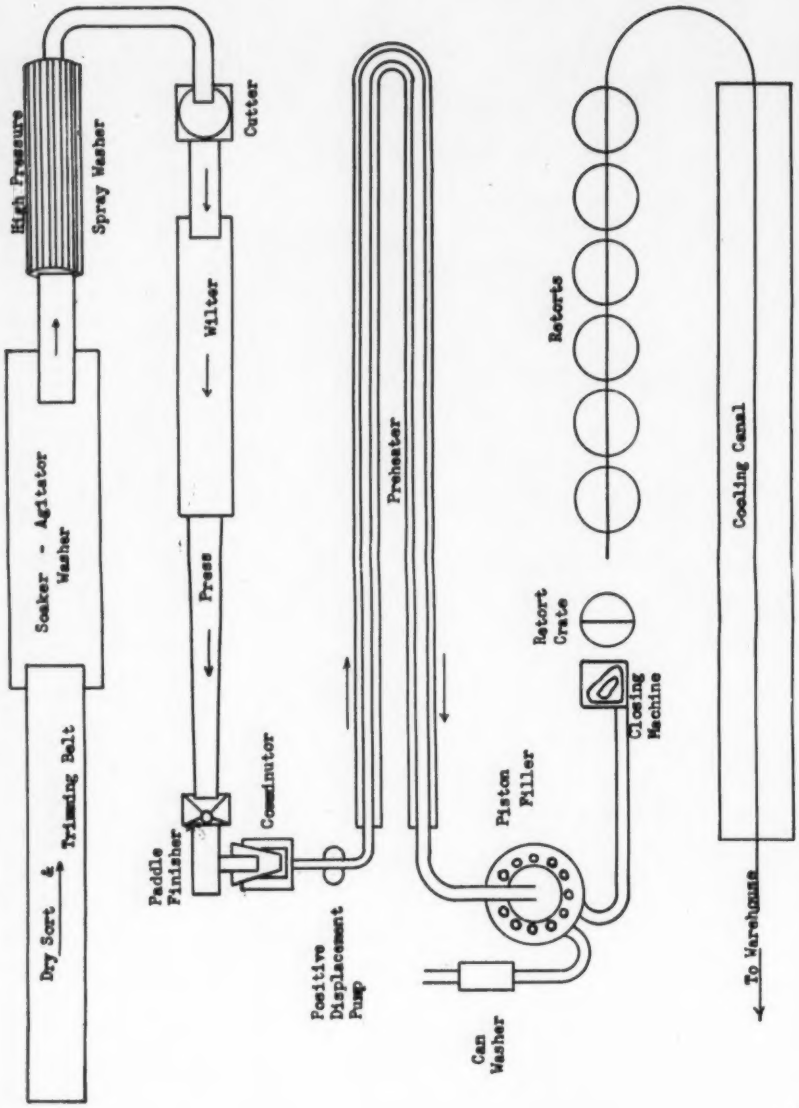
| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Holding Tanks | A 147, 148 | 4 | — |
| Holding Kettles | A 99, 100, 101 | 2 | — |
| Preheat Kettles | A 99, 100, 101 | 4 | — |
| Cooking Kettles | A 99, 100, 101 | 4 | — |
| Vacuum Pans | A 155 | 4 | — |
| Fillers | A 76, 78 | 4 | 3 |
| Cappers | F 26 | 4 | 4 |
| Closing Machine | F 3 | 2 | 2 |
| Pasteurizer-Cooler | A 113, 114 | 2 | 8 |
| Empty Box Conveyor | A 30, 32, 33 | 2 | 1½ |
| Air Cleaner | F 71 | 1 | ¼ |
| Glass Conveyor | A 32 | 2 | 2 |
| Labeler | F 44 | 2 | 2 |
| Filled Case Conveyor | A 30, 32, 33 | 2 | ½ |

(*Courtesy Red Wing Co.*)




## Quality control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 9 |
| Grading Lights | G 13 |
| Grading Scales | G 23 |
| Microscopes | G 18 |
| Refractometers | G 15 |
| Thermometers | G 25 |
| Vacuum Gauge | G 27 |
| Viscosity Instruments | G 28 |




# Pumpkin

**CANNED**

## Suggested basic equipment

**CAPACITY:**

30,000 lbs.
raw product
per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Dry Sort and Trimming Belts | A 30, 32 | 1 | 3 |
| Soaker-Agitator Washer | A 160 | 1 | 2 |
| High Pressure Spray Washer | A 160 | 1 | 3 |
| Cutter | A 53 | 1 | 5 |
| Wilter | A 7 | 1 | 5 |
| Press | A 119 | 1 | 1 |
| Paddle Finisher | A 2 | 1 | 15 |
| Comminutor | A 17 | 1 | 30 |
| Pump, Positive Displacement | A 123 | 1 | 5 |
| Preheater | A 7 | 1 | — |
| Piston Filler | A 78 | 1 | — |
| Can Washer | F 7 | 1 | ¼ |
| Closing Machine | F 3 | 1 | 5 |
| Retorts and Crates | A 127, 128 | 6 | — |

## Spray Washers, Flumes, Cooling Tanks in Charts

Processors seeking component parts for spray washers, flumes or cooling tables will be helped by these additional listings. The listings in the equipment guides next to each flow chart refer only to complete equipment in the Buyers' Guide. For example:

**Washers** ..... **A 160**

This means that Washers are listed in Section A under item 160.

However, such processors need these further listings:

**Nozzles, spray** ..... **A 112**
**Pumps, centrifugal** ..... **A 121**
**corrosion resistant** ..... **A 122**
**positive displacement** ..... **A 123**
**Valves, diaphram** ..... **A 156**
**gate, globe and check** ..... **A 157**
**motor operated** ..... **A 158**
**solenoid** ..... **A 159**
**Waste screen** ..... **D 66**
**Water purifying equipment** ..... **A 161**

**See Also: Conveyor equipment Page 35**

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Color Instruments | G 7 |
| Consistency Instrument | G 8 |
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Head-Space Gauge | G 14 |
| Refractometer | G 22 |
| Thermometers | G 25 |
| Vacuum Gauge | G 27 |
| Viscosity Instruments | G 28 |

# Sauerkraut

**CANNED**

## Suggested basic equipment

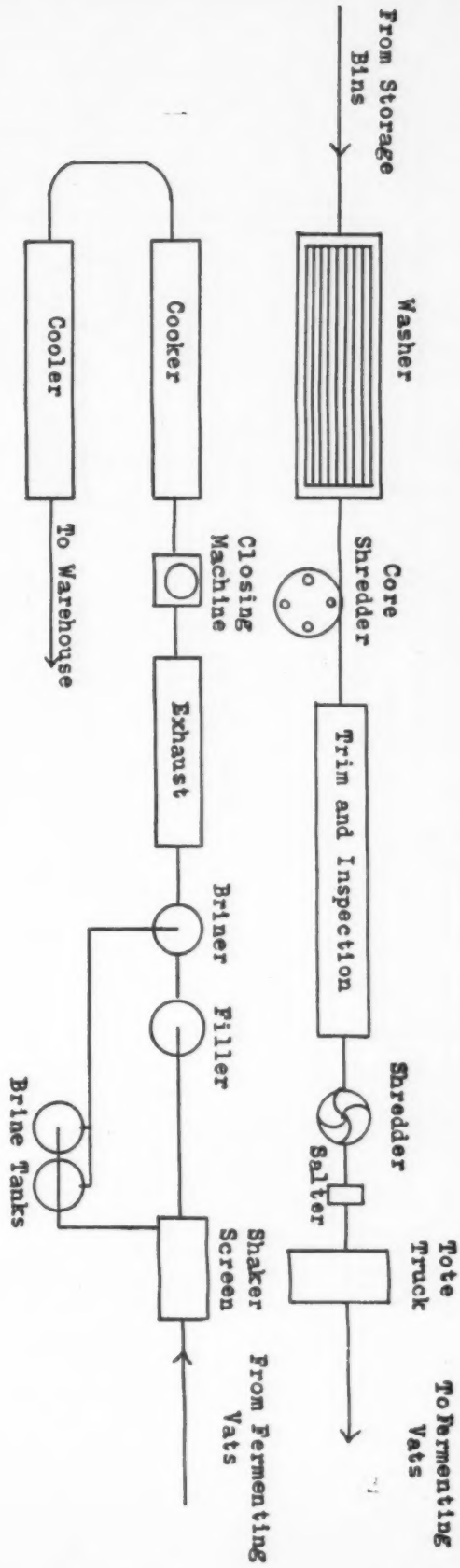
**CAPACITY:**

10,000 lbs.
raw cabbage
per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Washer | A 160 | 1 | 2 |
| Core Shredder | A 137 | 1 | 1 |
| Inspection Belt | A 30, 32 | 1 | 2 |
| Shredder | A 137 | 1 | 1 |
| Salter | A 129 | 1 | — |
| Shaker Screen | A 133 | 1 | 1 |
| Filler | A 75, 76, 77 | 1 | V |
| Briner | A 58 | 1 | — |
| Exhaust | A 72 | 1 | 1 |
| Closing Machine | F 3, 26 | 1 | 5 |
| Cooker-Cooler | A 36, A 40 | 1 | 5 |

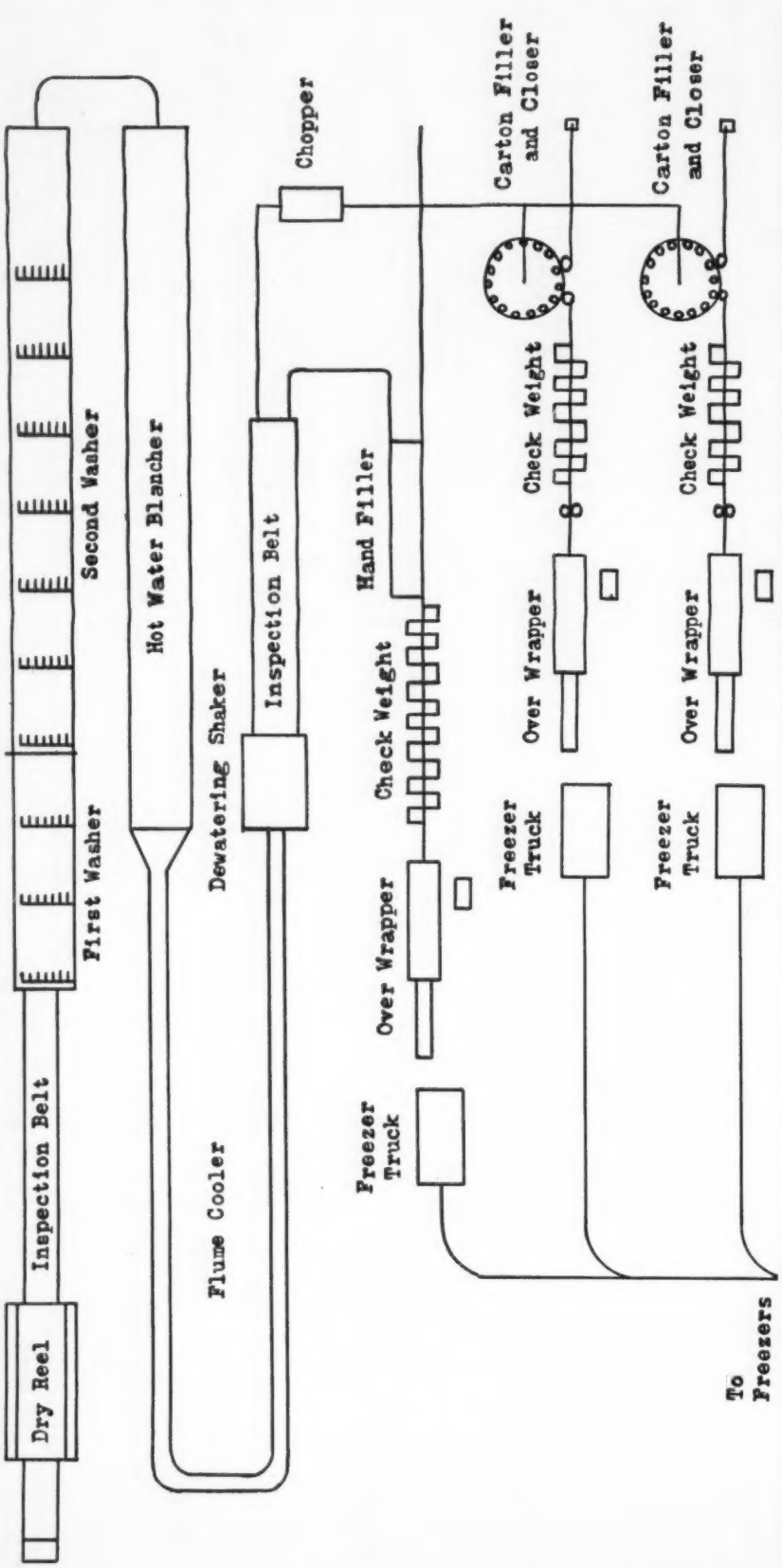
V — Variable

*(Sauerkraut flow chart courtesy Frank Pure Food Co., Franksville, Wis.)*




## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Center Temperature Measuring Device | G 4 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head Space Gauge | G 14 |
| Hydrometers | G 15 |
| pH Meter | G 17 |
| Microscope | G 18 |
| Thermometer | G 25 |
| Vacuum Gauge | G 27 |




# Spinach

**FROZEN**

## Suggested basic equipment

**CAPACITY:**

8,000 lbs. raw product per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Dry Reel | A 15 | 1 | 1.5 |
| Inspection Belts | A 30, 32 | 2 | 2 |
| Washers | A 160 | 2 | 32 |
| Blancher | A 7 | 1 | 2 |
| Dewatering Shaker | A 133 | 1 | ½ |
| Chopper | A 14 | 1 | 7½ |
| Fillers | F 11 | 2 | 3 |
| Over Wrappers | F 73 | 3 | 3 |

**For Additional Listings on:**

Conveyors ..... see page 35
Inspection Belts ..... see page 35
Cooling Tables ..... see page 37
Flumes, washers ..... see page 37

## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Grading Lights | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Thermometers | G 25 |

# Strawberries

**FROZEN**

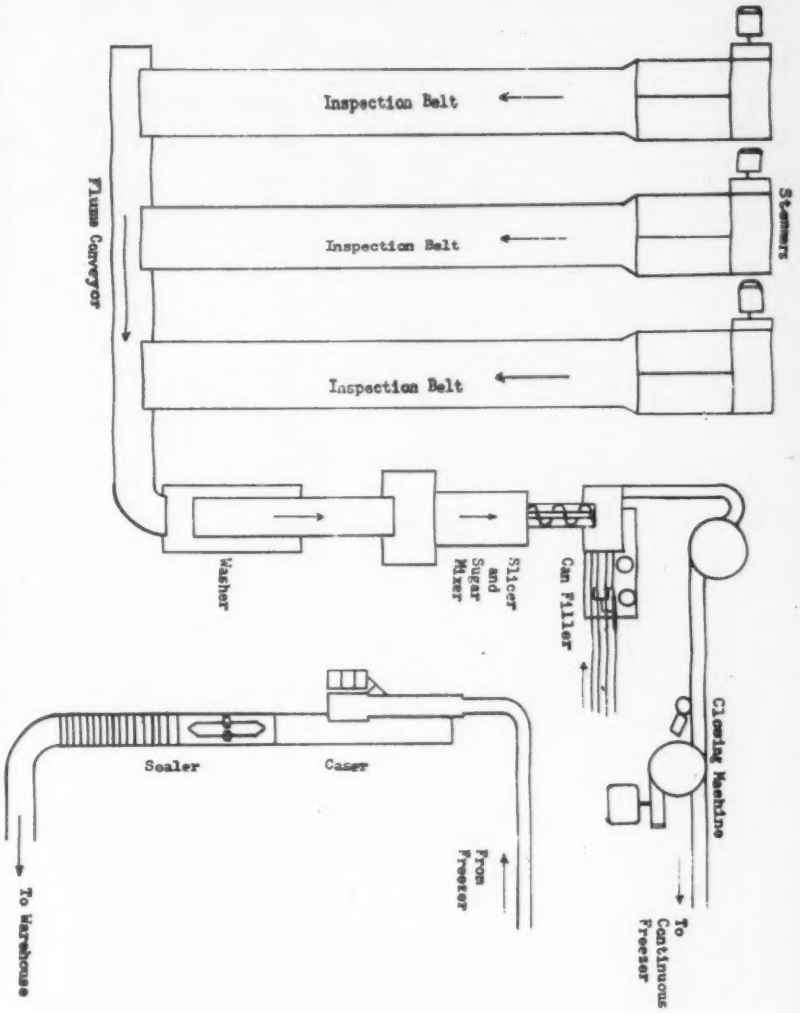
## Suggested basic equipment

**CAPACITY:**

30,000 lbs.
per 8-hr day

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Stemmers | A 141 | 3 | 2½ |
| Inspection Belts | A 30 | 3 | 1½ |
| Washer | A 160 | 1 | ½ |
| Slicer | A 137 | 1 | ½ |
| Sugar Mixer | A 61 | 1 | 1 |
| Can Filler | A 75 | 1 | ¾ |
| Closing Machine | F 3 | 1 | 5 |
| Freezer | E 21, 25 | 1 | V |
| Caser | F 18 | 1 | 1 |
| Sealer | F 20 | 1 | 1 |

V — Variable




## Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| Grading L'ghts | G 9 |
| Grading Scales | G 23 |
| Grading Screens | G 13 |
| Head-Space Gauge | G 14 |
| Microscope | G 18 |
| Mold Counting Equipment | G 20 |
| Vacuum Gauge | G 27 |

## Conveyors, Belts, Sorting Tables in Flow Charts

Processors seeking components for conveyors, inspection belts, sorting tables, etc., will be helped by the listings below. The equipment guide next to each flow chart lists only references to completed equipment in the Buyers' Guide. For example:

**Conveyors, belt** ..... **A 30**

This means that conveyors can be found in Section A of the Buyers' Guide under item 42.
However, such processors need these further listings:

**Bearings** ..... **A 4**

**Belting** ..... **A 5**

**Belts, "V"** ..... **A 6**

**Chain, conveyor and elevator** ..... **A 20**

**power transmission** ..... **A 21**

**Conveyor, belting, fabric** ..... **A 26**

**metallic** ..... **A 27**

**rubber** ..... **A 28**

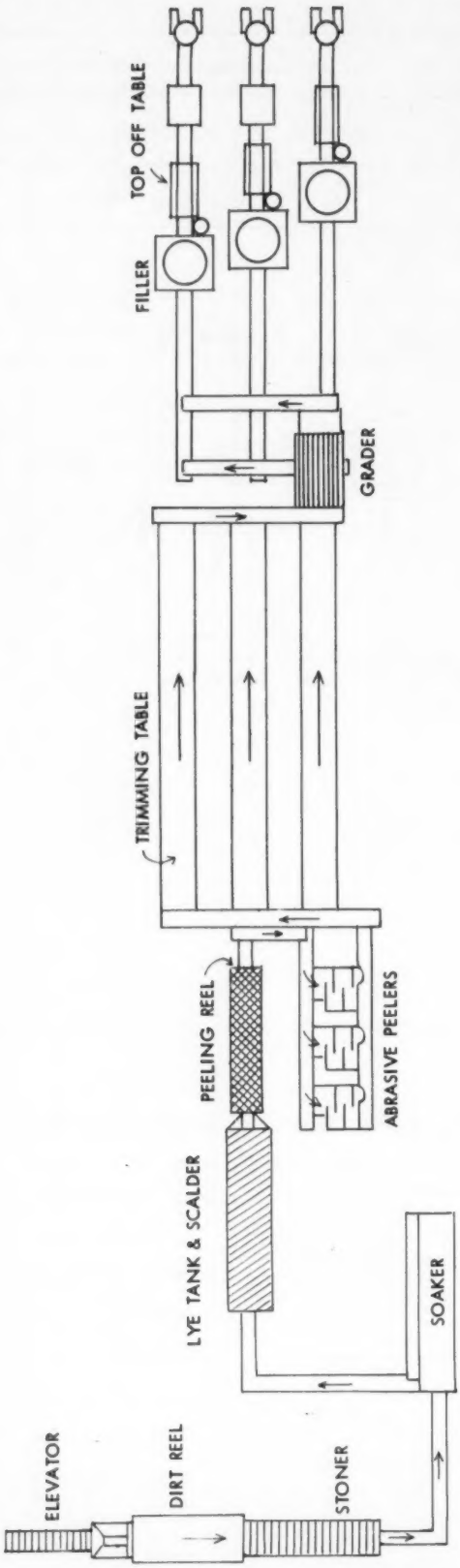
**Drives, variable speed** ..... **A 67**

**chain** ..... **A 63**

**fluid** ..... **A 64**

**gear** ..... **A 65**

**V-belt** ..... **A 66**




# Sweet Potatoes

## CANNED

### Suggested basic equipment

**CAPACITY:**

14 tons,
raw product per hour

| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| **Elevator** | A 31, 32 | 1 | ½ |
| **Dirt Reel** | A 132 | 1 | ¾ |
| **Soaker-Washer** | A 160 | 1 | — |
| **Lye Peeler** | A 115 | 1 | ½ |
| **Scalder** | A 130 | 1 | ½ |
| **Peeling Reel** | A 132 | 1 | ½ |
| **Abrasive Peelers** | A 115 | 3 | 6 |
| **Trimming Belts** | A 30, 32 | 3 | 2 |
| **Grader** | A 86 | 1 | 1 |
| **Filler** | A 75 | 3 | 3 |
| **Closing Machine** | A 3 | 3 | V |

V — Variable

*(Courtesy, Continental Can Co.)*

### Quality Control equipment

| Equipment | Manufacturer |
|---|---|
| **Grading Lights** | G 9 |
| **Grading Scales** | G 13 |
| **Center Temperature Device** | G 4 |
| **Hydrometer** | G 15 |
| **Refractometer** | G 22 |

# Tomatoes

## CANNED TOMATOES AND JUICE

### Suggested Basic equipment

**CAPACITY:**

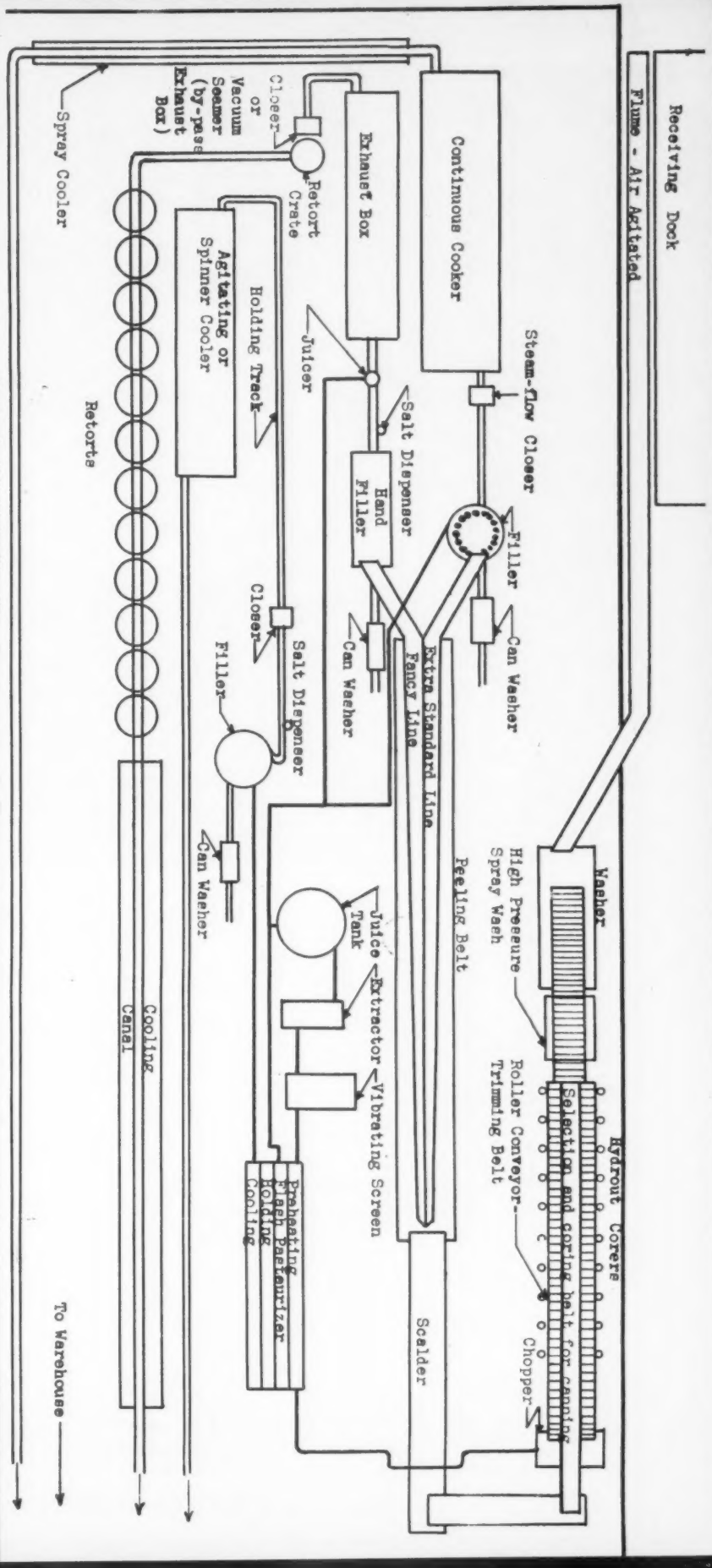
20,000 lbs.
raw product
per hour

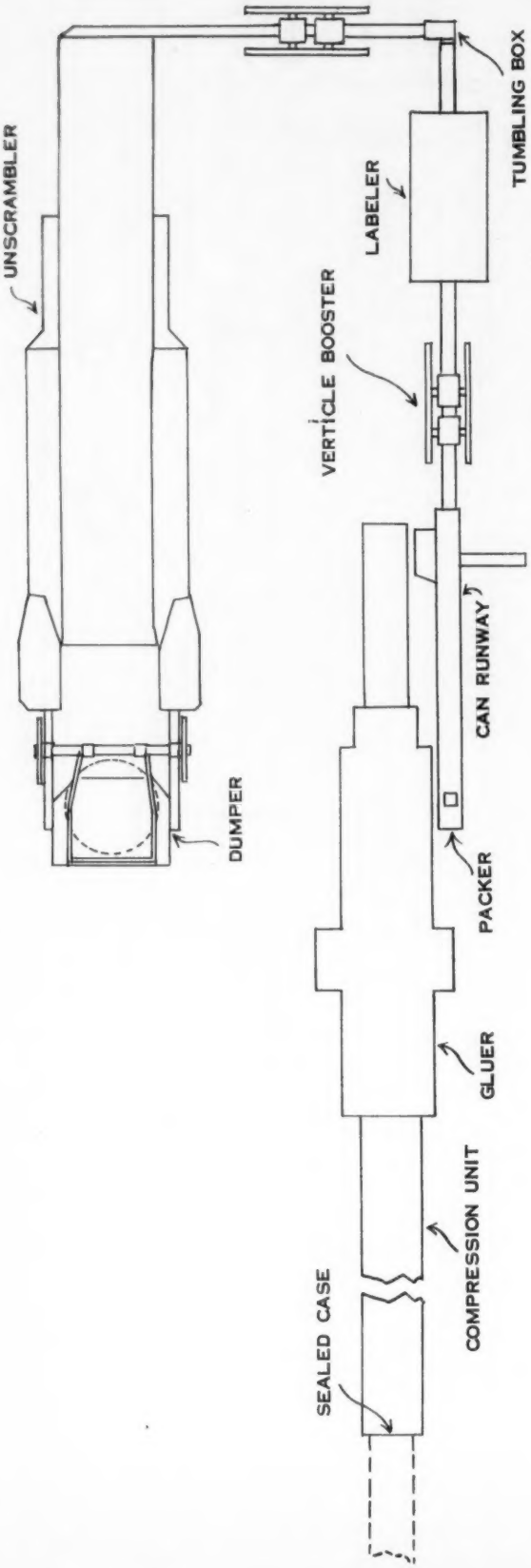
| Equipment | Manufacturer | No. of Units | Estimated H.P. |
|---|---|---|---|
| Soaker | A 160 | 1 | 1 |
| High Pressure Spray Washer | A 160 | 1 | 2 |
| Tomato Corers | A 43 | 40 | — |
| Selection Belt | A 30, 32 | 1 | 3 |
| Chopper | A 14 | 1 | 10 |
| Scalder | A 130 | 1 | 1 |
| Peeling Belt | A 116 | 1 | 3 |
| Can Washer | F 7 | 2 | ½ |
| Filler | A 75, 76, 77 | 2 | 2 |
| Salt Dispenser | A 60, 129 | 3 | ¼ |
| Juice Filler | A 75, 76 | 2 | 3 |
| Closing Machines | F 3, 26 | 3 | 15 |
| Continuous Cooker | A 36 | 1 | 3 |
| Exhaust Box | A 72 | 1 | 3 |
| Retort Crate | A 127 | 50-75 | — |
| Retorts | A 128 | 12 | — |
| Spray Cooler | A 41 | 1 | 3 |
| Can Tracks | A 32 | V | V |
| Cooling Canal | A 53 | V | V |
| Preheater | A 114 | 1 | 1 |
| Vibrating Screen | A 133 | 1 | 1 |
| Extractor | A 73 | 1 | 3 |
| Juice Tank, 150-300 gal. | A 147, 148 | 1 | — |
| Pasteurizer | A 113, 114 | 1 | 3 |
| Agitating Cooler | A 41 | 1 | 3 |

V — Variable

### Quality Control equipment

| | |
|---|---|
| Center Temperature Device | G 4 |
| Colorimeters | G 7 |
| Grading Lights | G 9 |
| Grading Screens | G 13 |
| Head-Space Gauge | G 14 |
| Microscope | G 18 |
| Refractometer | G 24 |
| Thermometers | G 25 |
| Vacuum Gauge | G 27 |
| Viscosity Instruments | G 28 |





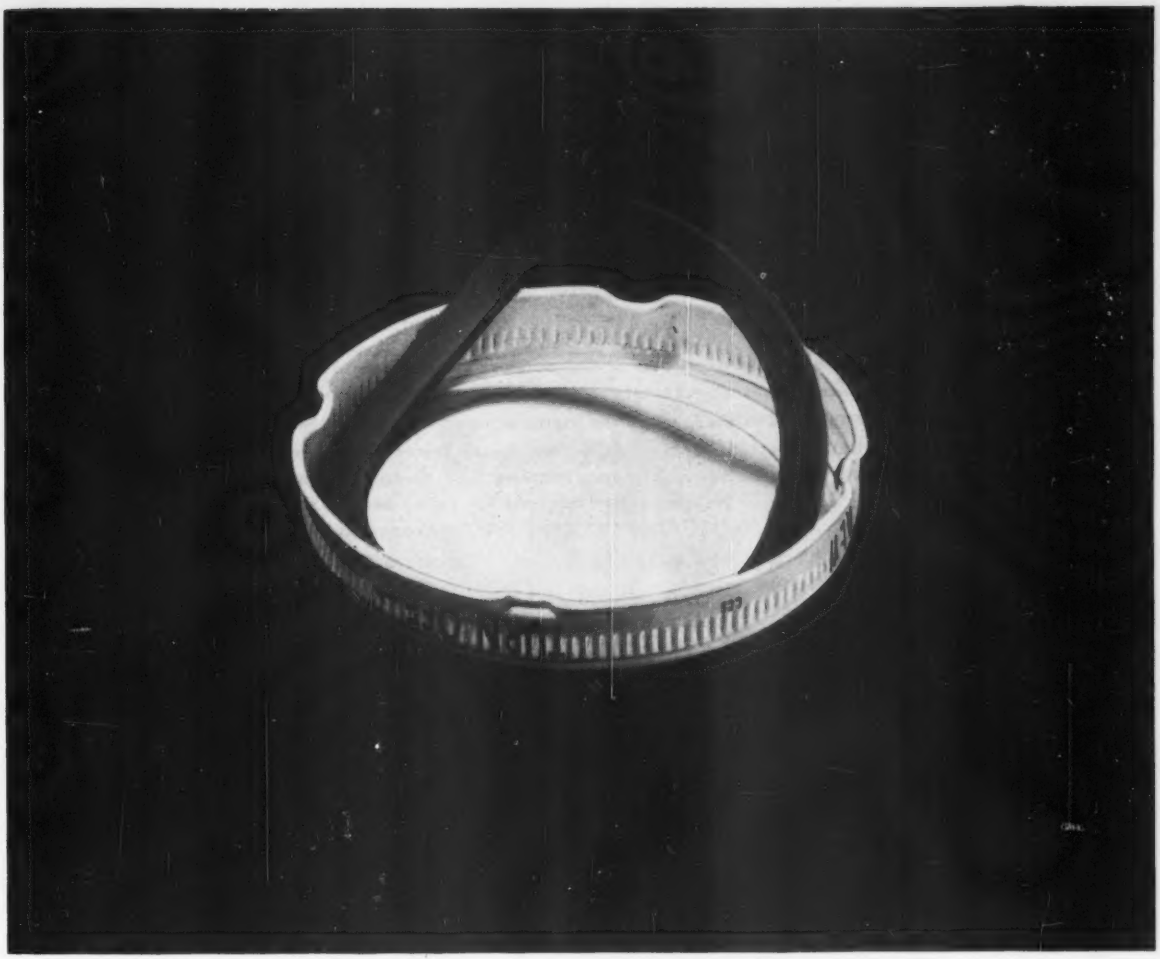

# Labeling Line

**CANS**

## Suggested basic equipment

| Equipment | Manufacturer |
|---|---|
| **Dumper** | **F 6** |
| **Unscrambler** | **F 1, 6** |
| **Tumbling box** | **F 1** |
| **Labeler** | **F 43** |
| **Case Packer** | **F 18** |
| **Sealer** | **F 20** |

*(Courtesy Standard-Knapp Div., Emhart Mfg. Co.)*



## . . . *you are looking at the only lug cap that gives you a* **LIVE RUBBER SEAL**

Crown pioneered the development of the quarter-turn lug cap. And only CROWN offers you the positive protection of a *live rubber* seal. Live rubber will *reseal* again and again. There is *no deterioration* or "setting"—elasticity assures *conformance* even to rough jar lips. Live rubber is the *best* material for withstanding live steam and pasteurization temperatures.

CROWN lug caps are designed for maximum mechanical efficiency as well as the fashion flair. Deeper sides give added strength and ease of handling. Choice of plain or knurled sides offers you maximum flexibility for all product lines. Crown's exclusive, *flat-seating lug* threads give positive, non-loosening seal—with or without vacuum pack.

For lug caps to fit all your requirements—no matter how exacting . . . for C.T. caps with the broadest selection of liners ever offered . . . let Crown serve you.

*for cans • closures • crowns • machinery*

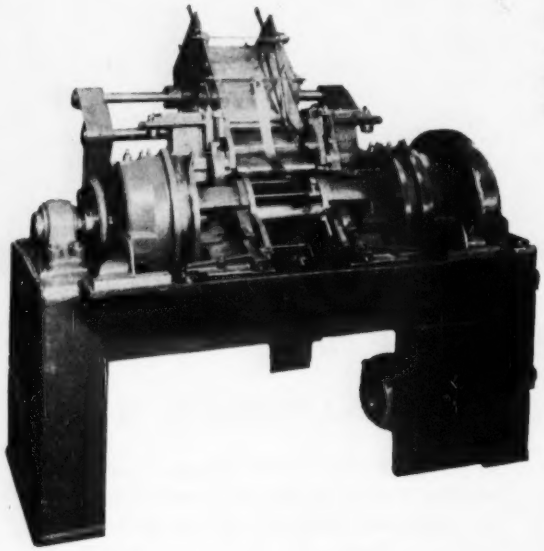
**CROWN**

**CROWN CORK & SEAL COMPANY, INC.**
**9300 Ashton Road, Philadelphia 36, Pa.**

# CALLAHAN
## CAN MACHINE COMPANY

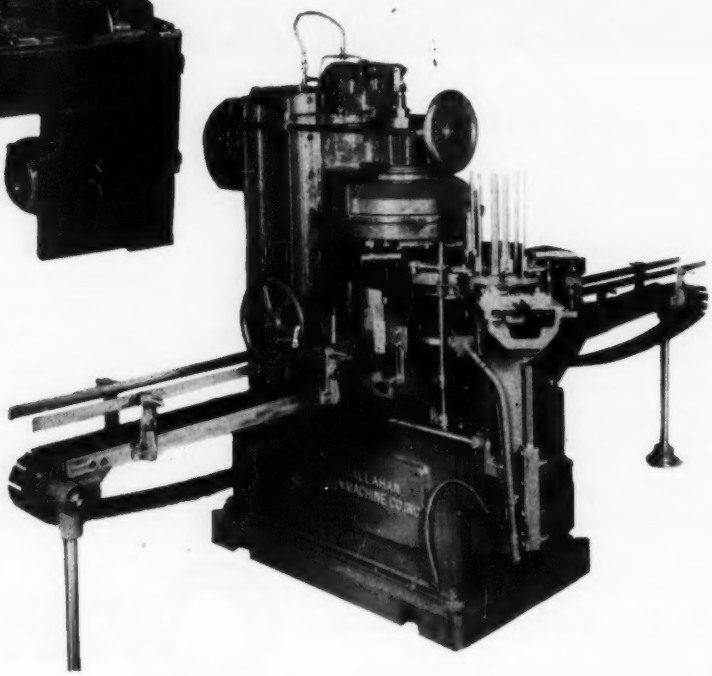
**Callahan has long been one of the outstanding sources of standard and special types of automatic and semi-automatic can making machinery. New and more complete manufacturing facilities now mean even better machines, faster deliveries, lower prices. Callahan manufactures slitters, body formers, beading and flanging machines, scroll shears, seamers and every machine for every can making operation for short or long runs. Whether you need one machine or a complete canning production line, be sure you talk to Callahan first.**

***WRITE FOR DETAILED INFORMATION AND SPECIFICATIONS ON ANY TYPE OF CAN MAKING MACHINERY.***



**MODEL 1308**

**"CALLAHAN" THREE HEAD RECTANGULAR CAN DOUBLE END FLANGER.**



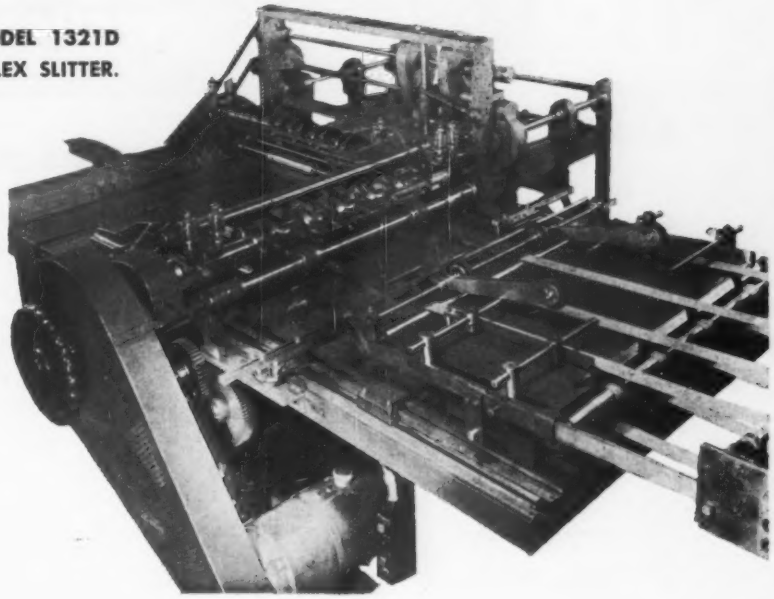
**MODEL 1151S**

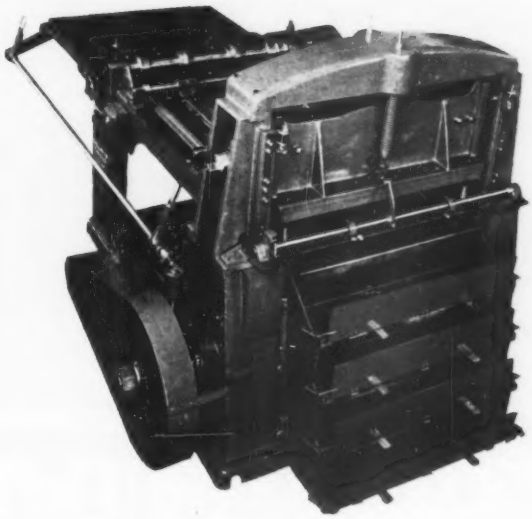
**"CALLAHAN" SINGLE HEAD, AUTOMATIC SQUARE AND IRREGULAR CAN DOUBLE SEAMER.**

**CALLAHAN CAN MACHINE COMPANY • PROCTOR, VERMONT**

# CALLAHAN
## CAN MACHINE COMPANY

MODEL 1321D
"CALLAHAN" DUPLEX SLITTER.





MODEL 1601
"CALLAHAN" HIGH SPEED
AUTOMATIC
SCROLL SHEAR.

DIVISION OF VERMONT MARBLE COMPANY • PROCTOR, VERMONT

# Flavors and Seasonings
## FOR EVERY REQUIREMENT!

**How do you like them ... for your operation?**

**RAW MATERIALS**

- Essential Oils
- Aromatic Chemicals
- Oleoresins
- Terpeneless Oils

**FLAVOR AND SEASONING LINES**

- Water-Soluble Compounds
- Oil-Soluble Compounds
- Dry-Soluble Compounds
- Spray Dried Products

## Or for your product?

- Processed Meat
- Canned Foods
- Beverages
- Desserts
- Confectionery
- Baked Goods
- Frozen Food
- Dry Concentrates
- Pharmaceuticals
- Dairy Products

For more than 159 years, D&O has provided fine flavoring materials and compounds in the form most suited to each manufacturer's individual requirements. Whether you need one of the oldest forms of flavor, an essential oil ... or a product of the newest processing advance, a spray dried compound, D&O is prepared to give you immediate service and a completely satisfactory product. Consult D&O.

*Essentially for You*

OUR 159th YEAR OF SERVICE

**DODGE & OLCOTT, INC.**

180 Varick Street, New York 14, N. Y.

Sales Offices in Principal Cities

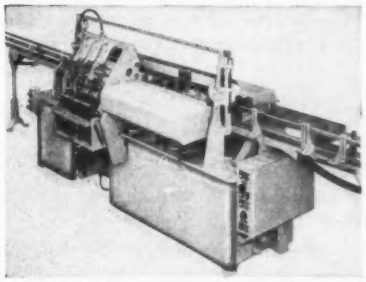
D&O ESTABLISHED 1798

ESSENTIAL OILS • AROMATIC CHEMICALS • PERFUME BASES • FLAVOR BASES • DRY SOLUBLE SEASONINGS

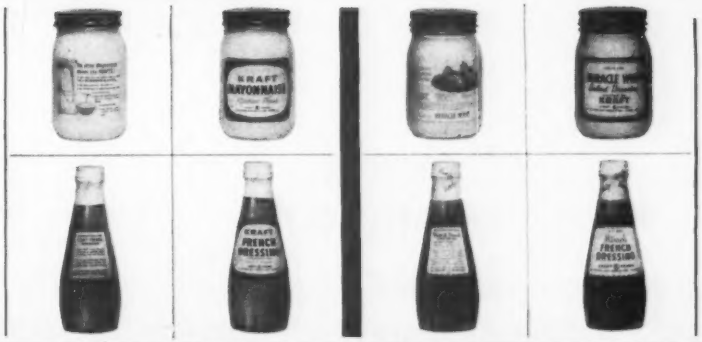
WHERE could the housewife find a recipe more conveniently placed than right on the container? There's nothing new about that idea . . . but *what is new* is making the back of the container provide this merchandising space.

Back labels, the exclusive plus feature of the Super C.M. labeler, can now be applied at the same instant as the front labels. This multi-label application goes on at top production speeds, too! . . . up to 320 bottles per minute.

Recipes, premium offers, special sale information, or just display repetition make your package more appealing at the point of sale. For the maximum in labeling versatility, be sure to consider the Super C.M. . . . a development of the world's foremost labeling machinery manufacturer.



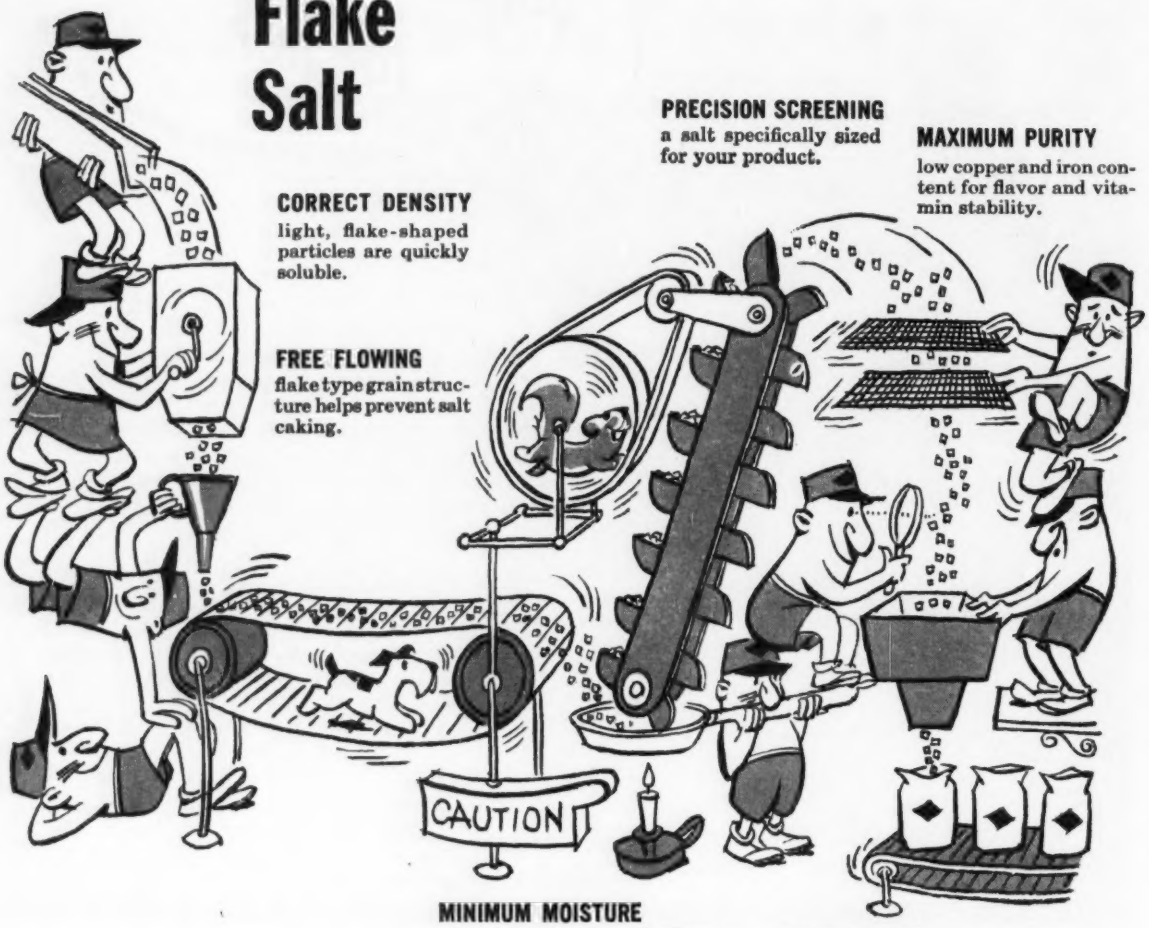
SUPER C-M




**WORLD LABELERS**

ECONOMIC MACHINERY COMPANY • WORCESTER 3, MASS. / Division of Geo. J. Meyer Manufacturing Company

# Diamond Crystal Flake Salt




**CORRECT DENSITY**
light, flake-shaped particles are quickly soluble.

**FREE FLOWING**
flake type grain structure helps prevent salt caking.

**PRECISION SCREENING**
a salt specifically sized for your product.

**MAXIMUM PURITY**
low copper and iron content for flavor and vitamin stability.

**MINIMUM MOISTURE**
salt dried to less than 1/10 of one percent helps eliminate salt storage problems.

**TRUE FLAVOR**
results from Diamond Crystal's exclusive Alberger process. It brings out the best in your products.

## Its worth is reflected in your product

Look at the facts. *Flake*—not cube or granular type salt is the positive answer to the use of salt in the canning of virtually all vegetables.

It all boils down to your product quality. We can help. Write to—Technical Department, Diamond Crystal Salt Co., St. Clair, Michigan, for proof—for facts—or talk to the Diamond Crystal salesman.

# Diamond Crystal Salt Co.

# BUYERS' GUIDE


**Section A ● Processing Equipment**

**Section B ● Food Ingredients and Additives**

**Section C ● Field Machinery and Supplies**

**Section D ● Plant Maintenance and Operating Supplies**

**Section E ● Freezing Equipment and Supplies**

**Section F ● Packaging Equipment, Containers and Supplies**

**Section G ● Quality Control Equipment and Supplies**

**Section H ● Special Services**


## Section A

# processing equipment

### 1. AERATORS

Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Bin-Dicator Co., 13946 Kercheval, Detroit 15, Mich.
Graver Water Conditioning Co., Dept. FP, 216 W. 14th St., New York 11, N. Y.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Pfaudler Permutit, Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Reinhardt, H. A., Co., Inc., P. O. Box 437, Newtown Station, Cincinnati 44, Ohio

### 2. AGITATORS, MIXERS, STIRRERS

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Mixing Equipment Co., Inc., 135 Mt. Read Blvd., Rochester 11, N. Y.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Pfaudler Permutit, Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Rietz Mfg. Co., 170 Todd Rd., Santa Rosa, Calif.
(Branch plant at 939 S. Matlack Rd., West Chester, Pa.)
Reynolds Electric Company, 3000 River Road, Dept. FP, River Grove, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio
Stainless Products Corp., 314 Reed St., Belding, Mich.
United Co., The, Tuc Road, Westminster, Md.

### 3. BEAN SNIPPERS

Chisholm-Ryder Company, Inc., Drawer F, Bridge Station. Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 4. BEARINGS

Chain Belt Co., 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Dodge Manufacturing Corp., So. Union St., Mishawaka, Ind.
Garlock Packing Company, United States Gasket Company Plastics Div., 610 N. 10th St., Camden 1, Pa.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.

### 5. BELTING

Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Globe Woven Belting Company, Inc., 1400 Clinton St., Buffalo 6, N.Y.
Hamachek, Frank, Machine Co., 97 Ellis St., Kewanee, Wisc.
Lee Rubber & Tire Corp., Republic Rubber Div., 1410 Albert St., Youngstown 1, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willett St., Passaic, N. J.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Russell Mfg., Co., The, Belting Div., East Main St., Middletown, Conn.
Sandvik Steel, Inc., Conveyor Dept., 1702 Nevins Road, Fair Lawn, N. J.
Thermoid Co., 200 Whitehead Road, Trenton 6, N. J.
Ton-Tex Corporation, 247 Pearl St., N.W., Grand Rapids 2, Mich.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 6. BELTS – "V"

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Dodge Manufacturing Corp., So. Union St., Mishawaka, Ind.
Durkee-Atwood Co., 215 N.E. 7th St., Minneapolis 13, Minn.
Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Hamachek, Frank, Machine Co., 97 Ellis St., Kewaunee, Wisc.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willett St., Passaic, N. J.
Thermoid Co., 200 Whitehead Road, Trenton 6, N. J.
Ton-Tex Corporation, 247 Pear, St., N.W., Grand Rapids 2, Mich.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.

### 7. BLANCHERS

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Berlin Chapman Co., Berlin, Wisc.

# Section A

## Processing Equipment

Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
American Optical Co., Instrument Div., Box A., Buffalo 15, N. Y.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 8. BOILERS

Ames Iron Works, Inc., FP 56, Oswego, N. Y.
Clayton Manufacturing Co., 401 N. Temple City Blvd., El Monte, Calif.
Erie City Iron Works, 1421 East Ave., Erie, Pa.
Johnston Brothers, Inc., Ferrysburg, Mich.
National-U. S. Radiator Corp., Cyclotherm Div., 157 E. 2nd St., Oswego, N. Y.
Orr & Sembower, Inc., Morgantown Rd., Reading, Pa.

### 9. BREADING EQUIPMENT

Greer, J. W., Company, Wilmington, Mass.

### 10. BRINE MAKING MACHINES

International Salt Company, Inc., Scranton, Pa.
Morton Salt Co., 110 Wacker Drive, Chicago 6, Ill
Morton Salt Co., 110 N. Wacker Dr., Chicago 6, Ill.

### 11. BURNERS – Gas

Erie City Iron Works, 1421 East Ave., Erie, Pa.
Hauck Mfg. Co., Dept FP, 126-134 Tenth St., Brooklyn 15, N. Y.
Iron Fireman Mfg. Co., 3170 W. 106th St., Cleveland 11, Ohio
Johnston Brothers, Inc., Ferrysburg, Mich.
Orr & Sembower, Inc., Morgantown Rd., Reading, Pa.
Ray Burner Co., 1305 San Jose Ave., San Francisco 12, Calif.

### 12. BURNERS – OIL

Erie City Iron Works, 1421 East Ave., Erie, Pa.
Hauck Mfg. Co., Dept. FP, 126-134 Tenth St., Brooklyn 15, N. Y.
Iron Fireman Mfg. Co., 3170 W. 106th St., Cleveland 11, Ohio
Johnston Brothers, Inc., Ferrysburg, Mich.
Orr & Sembower, Inc., Morgantown Rd., Reading, Pa.
Ray Burner Co., 1305 San Jose Ave., San Francisco 12, Calif.

### 13. CAN SHAKERS

United Company, The, Tuc Road, Westminster, Md.

### 14. CHOPPERS

Berlin Chapman Co., Berlin, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.
Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 15. CLEANERS – Raw Product

American Machinery Corp., P. O. Box 3228, Orlando, Florida
Berlin Chapman Co., Berlin, Wisc.
Ferrell, A. T. and Co., 1621 Wheeler St., Saginaw, Mich.
Huntley Mfg. Co., 64 Peerless St., Brocton, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Key Equipment Company, P. O. Box 1036, 217 E. Broadway, Milton-Freewater, Ore.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 16. COILS – Pipe

Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Langsenkamp, F. H. Co., 227 E. South St., Indianapolis, Ind.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Republic Steel, 3100 E. 45th St., Cleveland 27, Ohio
Stainless Products Corp., 314 Reed St., Belding, Mich.

### 17. COMMINUTERS

Dole, James, Engineering Co., 1400 Industrial Way, P. O. Box 808, Redwood City, Calif.
Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Oliver Corp., The, A. B. Farquhar Division, 122 N. Duke St., York, Pa.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
United Company, The, Tuc Road, Westminster, Md.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.

### 18. COMPRESSORS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Fuller Co., Catasauqua, Pa.
Gardner-Denver Co., Front St., Quincy, Ill.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Oliver Corp., The, A. B. Farquhar Division, 122 N. Duke St., York, Pa.
Quincy Compressor Co., 217 Maine Street, Quincy, Ill.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wisc.

### 19. CONDENSATE RETURN

Cochrane Corp., 3150 N-17th St., Philadelphia 32, Pa.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COCHRANE CORP., 3150 N. 17th St., Phila. 32, Pa.


### 20. CONTROLLERS – Recording

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Robertshaw-Fulton Controls Company, The Instrument Division, 2920 North 4th St., Philadelphia 33, Pa.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 21. CONTROLS – Electronic

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
B/W Controller Corp., 2200 S. Maple, Birmingham, Mich.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Potter Instrument Co., Inc., Sunnyside Blvd., Plainview, N. Y .
Reliance Elec. and Engrg. Co., 24701 Euclid Ave., Cleveland 17, Ohio
Richardson Scale Co., 670 Van Houten Ave., Clifton, N. J.
Robertshaw-Fulton Controls Company, The Instrument Division, 2920 North 4th St., Philadelphia 33, Pa.
Rockwell Mfg. Co., 400 N. Lexington Ave., Dept. 608, Pittsburgh 8, Pa.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 22. CONTROLS – Flow

B-I-F Industries, Inc., 423 Harris Ave., Providence 1, R. I.
Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wisc.
Fenwal, Incorporated, Pleasant Street, Ashland, Mass.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
General Gas Light Co., Humphrey Products Division, 202-226 N. Park St., Kalamazoo, Mich.
Homestead Valve Mfg. Co., P. O. Box 348, Caraopolis, Pa.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Reliance Elec. and Engrg. Co., 24701 Euclid Ave., Cleveland 17, Ohio
Rockwell Mfg. Co., 400 N. Lexington Ave., Dept. 608, Pittsburgh 8, Pa.

### 23. CONTROLS – Liquid Level

B-I-F Industries, Inc., 423 Harris Ave., Providence 1, R. I.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
B/W Controller Corp., 2200 E. Maple, Birmingham, Mich.
Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wisc.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.

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# Section A

## Processing Equipment

Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Majonnier Bros. Co., 4601 West Ohio St., Chicago 44, Ill.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Reliance Elec. and Engrg. Co., 24701 Euclid Ave., Cleveland 17, Ohio
Robertshaw-Fulton Controls Company, The Instrument Division, 2920 North 4th St., Philadelphia 33, Pa.
Rockwell Mfg. Co., 400 N. Lexington Ave., Dept. 608, Pittsburgh 8, Pa.
Spence Engineering Company, Inc., 29-41 Grant St., Walden, N. Y .
Stainless Products Corp., 314 Reed St., Belding, Mich.
United Electric Controls Co., 85 School St., Watertown 72, Mass.
Weigand, Edwin L., Co., 7507 Thomas Blvd., Pittsburgh 8, Pa.

### 24. CONTROLS – Pressure and Vacuum

Berlin Chapman Co., Berlin, Wisc.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wisc.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton St., Skokie 82, Ill.
Spence Engineering Company, Inc., 29-41 Grant St., Walden, N. Y .
United Electric Controls Co., 85 School St., Watertown 72, Mass.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 25. CONTROLS – Temperature

Berlin Chapman Co., Berlin, Wisc.
Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Burling Instrument Co., 20 River Rd., Chatham, N. J.
Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wisc.
Electronic Processes Corp. of Calif., 2190 Folsom St., Suite 314, San Francisco 10, Calif.
Fenwal, Incorporated, Pleasant Street, Ashland, Mass.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Robertshaw-Fulton Controls Company, The Instrument Division, 2920 North 4th St., Philadelphia 33, Pa.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Spence Engineering Company, Inc., 29-41 Grant St., Walden, N. Y.
United Electric Controls Co., 85 School St., Watertown 72, Mass.
Weigand, Edwin L., Co., 7507 Thomas Blvd., Pittsburgh 8, Pa.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 26. CONVEYOR BELTING – Fabric

Buffalo Weaving & Belting Co., 266 Chandler St., Buffalo 7, N. Y.
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Colorado Fuel and Iron Corp., The, Wickwire Spencer Steel Div., 575 Madison Ave., New York 22, N. Y.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Globe Woven Belting Company, Inc., 1400 Clinton St., Buffalo 6, N.Y.
Goodrich, B. F., Industrial Products Co., Akron 18, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Russell Mfg., Co., The, Belting Div., East Main St., Middletown, Conn.
Thermoid Co., 200 Whitehead Road, Trenton 6, N. J.
Ton-Tex Corporation, 247 Pearl St., N.W., Grand Rapids 2, Mich.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 27. CONVEYOR BELTING – Metal

Cambridge Wire Cloth Co., Cambridge, Md.
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Colorado Fuel and Iron Corp., The, Wickwire Spencer Steel Div., 575 Madison Ave., New York 22, N. Y.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
La Porte Mat. & Mfg. Co., 305 Brighton St., La Porte, Ind.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Russell Mfg., Co., The, Belting Div., East Main St., Middletown, Conn.
Sandvik Steel, Inc., Conveyor Dept, 1702 Nevins Road, Fair Lawn, N. J.
United States Steel Corp., Amer. Steel & Wire Div., Cyclone Fence Dept., P. O. Box 260 F.P., Waukegan 1, Ill.

### 28. CONVEYOR BELTING – Rubber

Buffalo Weaving & Belting Co., 266 Cnandler St., Buffalo 7, N. Y.
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Globe Woven Belting Company, Inc., 1400 Clinton St., Buffalo 6, N.Y.
Goodrich, B. F., Industrial Products Co., Akron 18, Ohio
Greer, J. W., Company, Wilmington, Mass.
Hamachek, Frank, Machine Co., 97 Ellis St., Kewaunee, Wisc.
Lee Rubber & Tire Corp., Republic Rubber Div., 1410 Albert St., Youngstown 1, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willett St., Passaic, N. J.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Russell Mfg., Co., The, Belting Div., East Main St., Middletown, Conn.
Thermoid Co., 200 Whitehead Road, Trenton 6, N. J.
Ton-Tex Corporation, 247 Pearl St., N.W., Grand Rapids 2, Mich.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 29. CONVEYORS – Apron and Slat

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Buschman, E. W., Company, The, 4493 Clifton Ave., Cincinnati 32, Ohio
Canning Machinery Co., 5105 S.W. 45th Ave., Portland 1, Oregon
Chain Belt Company, 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Colorado Fuel and Iron Corp., The, Wickwire Spencer Steel Div., 575 Madison Ave., New York 22, N. Y.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Ferguson, Alvey, Co., 3131 Disney St., Cincinnati 9, Ohio
Island Equipment Corp., 27-01 Bridge Plaza, North, Long Island City 1, N. Y.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
M-H Standard Corp., 516-518 Communipaw Ave., Jersey City 4, N. J.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.
Proctor & Schwartz, Inc., 7th St. & Tabor Road, Philadelphia 20, Pa.
Rapids-Standard Company, Inc., The, Rapistan Building, Grand Rapids 2, Mich.
Standard Conveyor Co., 1114-N.W. Second, North St. Paul 9, Minn.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 30. CONVEYORS & ELEVATORS – Belt

Albertoli, John, 418 Beach St. San Francisco, Calif.
American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Berlin Chapman Co., Berlin, Wisc.
Boutell Manufacturing Co., 55 Lois Street, Rochester 6, N. Y.
Buschman, E. W., Company, The, 4493 Clifton Ave., Cincinnati 32, Ohio
Canning Machinery Co., 5105 S.W. 45th Ave., Portland 1, Oregon
Chain Belt Company, 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Ferguson, Alvey, Co., 3131 Disney St., Cincinnati 9, Ohio
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
General Nailing Machine Corp., P. O. Box 337 Sanger, Calif.
Globe Woven Belting Company, Inc., 1400 Clinton St., Buffalo 6, N.Y.
Island Equipment Corp., 27-01 Bridge Plaza, North, Long Island City 1, N. Y .
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Metzgar Conveyor Co., 414 Douglas, N.W., Grand Rapids 4, Mich.
M-H Standard Corp., 516-518 Communipaw Ave., Jersey City 4, N. J.
Oliver Corp., The, A. B. Farquhar Division, 122 N. Duke St., York, Pa.
Rapids-Standard Company, Inc., The, Rapistan Building, Grand Rapids 2, Mich.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Russell Mfg., Co., The, Belting Div., East Main St., Middletown, Conn.
Speedways Conveyors, Inc., 144 Speedways Bldg., Buffalo 13, N. Y.
Standard Conveyor Co., 1114-N.W. Second, North St. Paul 9, Minn.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 31. CONVEYORS & ELEVATORS – Bucket

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Chain Belt Company, 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Ferrell, A. T. and Co., 1621 Wheeler St., Saginaw, Mich.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Frazier & Son, 20-02 Industrial West, Allwood, Clifton, N. J.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Lynch Corp., Anderson, Ind.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
M-H Standard Corp., 516-518 Communipaw Ave., Jersey City 4, N. J.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 32. CONVEYORS – Chain

Alto Corporation, 333 Seventh Ave., York, Pa.
American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Buschman, E. W., Company, The, 4493 Clifton Ave., Cincinnati 32, Ohio
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Chain Belt Company, 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Diamond Chain Co., Inc., 402 Kentucky Ave., Indianapolis 7, Ind.
Ferguson, Alvey, Co., 3131 Disney St., Cincinnati 9, Ohio
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
General Nailing Machine Corp., P. O. Box 337, Sanger, Calif.
Hauck Mfg. Co., 150-160 Tenth St., Brooklyn 15, N. Y.
Hodag Chemical Corp., 7247 N. Central Park, Chicago 45, Ill.
Island Equipment Corp., 27-01 Bridge Plaza, North, Long Island City 1, N. Y.
Jocobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Key Equipment Company, P. O. Box 1036, 217 E. Broadway, Milton-Freewater, Ore.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
M-H Standard Corp., 516-518 Communipaw Ave., Jersey City 4, N. J.
Mojonnier Bros. Co., 4601 West Ohio St., Chicago 44, Ill.
MRM Co., Inc., 191 Berry St., Brooklyn 11, N.Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Standard Conveyor Co., 1114-N.W. Second, North St. Paul 9, Minn.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.

### 33. CONVEYORS – Roller or Wheel

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Berlin Chapman Co., Berlin, Wisc.
Buschman, E. W., Company, The, 4493 Clifton Ave., Cincinnati 32, Ohio
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Ferguson, Alvey, Co., 3131 Disney St., Cincinnati 9, Ohio
General Nailing Machine Corp., P. O. Box 337, Sanger, Calif.
Island Equipment Corp., 27-01 Bridge Plaza, North Long Island City 1, N. Y.
Jocobowitz, Charles S., Corp., 383 Main Street, Buffalo 14, N. Y.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Magline, Inc., 110 Cherry St., Pinconning, Mich.
Metzgar Conveyor Co., 414 Douglas, N.W., Grand Rapids 4, Mich.
M-H Standard Corp., 510 Communipaw Ave., Jersey City 4, N. J.
Mojonnier Bros. Co., 4601 West Ohio St., Chicago 44, Ill.
Oliver Corp., The, A. B. Farquhar Division, 122 N. Duke St., York, Pa.
Rapids-Standard Company, Inc., The, Rapistan Building, Grand Rapids 2, Mich.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Speedways Conveyors, Inc., 144 Speedways Bldg., Buffalo 13, N. Y.
Standard Conveyor Co., 1114-N.W. Second, North St. Paul 9, Minn.

### 34. CONVEYORS – Screw or Spiral

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
M-H Standard Corp., 516-518 Communipaw Ave., Jersey City 4, N. J.
Reinhardt, H. A., Co., Inc., 77 Church St., Newtown, Ohio
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Standard Conveyor Co., 1114-N.W. Second, North St. Paul 9, Minn.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.

### 35. CONVEYORS – Vibrating

Eriez Mfg. Co., 253 Magnet Drive, Erie, Pa.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Simplicity Engineering Co., 200 Oak St., Durand, Mich.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.

### 36. COOKERS – Continuous

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Berlin Chapman Co., Berlin, Wisc.
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Girdler Co., The, Votator Division, 224 E. Broadway, Louisville 1, Ky.
Greer, J. W., Company, Wilmington, Mass.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.

# Section A

## Processing Equipment

Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.

### 37. COOKERS – Prepared Food

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Reinhardt, H. A., Co., Inc., P. O. Box 437, Newtown Station, Cincinnati 44, Ohio
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
Stainless Products Corp., 314 Reed St., Belding, Mich.

### 38. COOKERS – Rendering

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.

### 39. COOKERS – Tomato Pulp

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Girdler Co., The, Votator Division, 224 E. Broadway, Louisville 1, Ky.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.

### 40. COOLERS – Continuous

Alto Corporation, 333 Seventh Ave., York, Pa.
Berlin Chapman Co., Berlin, Wisc.
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Chemetron Corp., Girdler Process Equipment Div., 334 E. Broadway, Louisville 1, Ky.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.

### 41. COOLERS – Surface & Tubular

Acme Industries, Inc., 601 N. Mechanic St., Jackson, Mich.
American Machinery Co., 420 Market St., San Francisco 11, Calif.

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Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Mojonnier Bros. Co., 4601 West Ohio St., Chicago 44, Ill.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.
Tranter Mfg. Inc., 735 East Hazel, Lansing 9, Mich.

### 42. CORERS – Fruit

Boutell Manufacturing Co., 55 Lois Street, Rochester 6, N. Y.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.

### 43. CORERS – Tomato

Urschel Laboratories, Inc., Valparaiso, Ind.

### 44. CORN HUSKERS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
United Company, The, Tuc Road, Westminster, Md.

### 45. CORN SILKERS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Sheboygan Machine Co., P. O. Box 1, Sheboygan, Wisc.
United Company, The, Tuc Road, Westminster, Md.

### 46. COUNTERS – Production

Durant Mfg. Co., 1971 N. Buffum St., Milwaukee 1, Wisc.
Potter Instrument Co., Inc., Sunnyside Blvd., Plainview, N. Y.
Magnuson Engineers, Inc., 509 Emory St., San Jose, Calif.
Rapids-Standard Company, Inc., The, Rapistan Building, Grand Rapids 2, Mich.
Richardson Scale Co., 670 Van Housten Ave., Clifton, N. J.
United Company, The, Tuc Road, Westminster, Md.

### 47. COUPLINGS – Flexible

Chain Belt Company, 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Diamond Chain Co., Inc., 402 Kentucky Ave., Indianapolis 7, Ind.
Dodge Manufacturing Corp., So. Union St., Mishawaka, Ind.
Falk Corp., 3095 West Canal St., Milwaukee 1, Wisc.
Garlock Packing Company, United States Gasket Company Plastics Div., 610 N. 10th St., Camden 1, Pa.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Link-Belt Company, Dept. 57-FPGL, prudential Plaza, Chicago 1, Ill.
Michigan Tool Co., Cone-Drive Gears Div., 7171 E. McNichols Rd., Detroit 12, Mich.

### 48. CUTTERS – Asparagus

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 49. CUTTERS – Bean

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 50. CUTTERS – Beet

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio
Urschel Laboratories, Inc., Valparaiso, Ind.

### 51. CUTTERS – Corn

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
United Company, The, Tuc Road, Westminster, Md.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 52. CUTTERS – Pickle

Boutell Manufacturing Co., 55 Lois Street, Rochester 6, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 53. CUTTERS – Rotary Knife

Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 54. CUTTERS – Strip

Boutell Manufacturing Co., 55 Lois Street, Rochester 6, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 55. CYLINDERS – Air-Hydraulic

Ledeen Mfg. Co., 3350 No. Gilman Road, El Monte, Calif.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio

### 56. DEAERATORS

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Dole, James, Engineering Co., 1400 Industrial Way, P. O. Box 808, Redwood City, Calif.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.

# Section A

## Processing Equipment

Graver Water Conditioning Co., Dept. FP, 216 W. 14th St., New York 11, N. Y.
Hunt, Rodney, Machine Co., 181 Vale St., Orange, Mass.
Pfaudler Permutit, Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.

### 57. DICERS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Miller, Franklin P., & Son, Inc., 30 Meadow St., East Orange, N. J.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio
Urschel Laboratories, Inc., Valparaiso, Ind.
Wear-Ever Aluminum, Inc., Wear-Ever Bldg., 10th Ave. & 11th St., New Kensington, Pa.

### 58. DISPENSERS – BRINE

Lamson Corp., Lamson St., Syracuse 1, N. Y.
C. W. Logeman Company, 633 Bergen St., Brooklyn 38, N.Y.
International Salt Company, Inc., Scranton, Pa.
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.

### 59. DISPENSERS – Monosodium Glutamate

Logeman, C. W., Co., 633 Bergen St., Brooklyn 38, N. Y.
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.

### 60. DISPENSERS – Salt

Hamachek, Frank, Machine Co., 97 Ellis St., Kewaunee, Wisc.
International Salt Company, Inc., Scranton, Pa.
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.

### 61. DISPENSERS – Sugar

Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.
C. W. Logeman Company, 633 Bergen St., Brooklyn 38, N.Y.

### 62. DISPENSERS – Syrup

Ledeen Mfg. Co., 3350 No. Gilman Road, El Monte, Calif.
C. W. Logeman Company, 633 Bergen St., Brooklyn 38, N.Y.
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.

### 63. DRIVES – Chain

Boutell Manufacturing Co., 55 Lois Street, Rochester 6, N. Y.
Chain Belt Company, 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Diamond Chain Co., Inc., 402 Kentucky Ave., Indianapolis 7, Ind.
Dodge Manufacturing Corp., So. Union St., Mishawaka, Ind.
Hamachek, Frank, Machine Co., 97 Ellis St., Kewaunee, Wisc.

# Section A

## Processing Equipment

Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Baltimore 2, Md.
Robins, A.K. & Co., Inc., 713 E. Lombard
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Logeman, C. W., Co., 633 Bergen St., Brooklyn 38, N. Y.

### 64. DRIVES – Fluid

Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Dodge Manufacturing Corp., So. Union St., Mishawaka, Ind.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.

### 65. DRIVES – Gear

Airborne Accessories Corp., 1414 Chestnut Ave., Hillside 5, N. J.
American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Dodge Manufacturing Corp., So. Union St., Mishawaka, Ind.
Falk Corp., 3095 West Canal St., Milwaukee 1, Wisc.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Michigan Tool Co., Cone-Drive Gears Div., 7171 E. McNichols Rd., Detroit 12, Mich.
U. S. Electrical Motors, Inc., 201 E. Slauson, Los Angeles 54, Calif.

### 66. DRIVES – V-Belt

Dodge Manufacturing Corp., So. Union St., Mishawaka, Ind.
Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Hamachek, Frank, Machine Co., 97 Ellis St., Kewaunee, Wisc.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willett St., Passaic, N. J.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.

### 67. DRIVES – Variable Speed

Dodge Manufacturing Corp., So. Union St., Mishawaka, Ind.
Electric Products Company, The, 1725 Clarkstone Rd., Cleveland 12, O.
Frazier & Son, 20-02 Industrial West, Allwood, Clifton, N. J.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Michigan Tool Co., Cone-Drive Gears Div., 7171 E. McNichols Rd., Detroit 12, Mich.
Reliance Elec. and Engineering Co., 24701 Euclid Ave., Cleveland 17, Ohio
Worthington Corp., 401 Worthington Ave., Harrison, N. J.

### 68. DRYERS – Infrared Ray and Lamp

Canning Machinery Co., 5105 S.W. 45th Ave., Portland 1, Oregon
Corning Glass Works, Corning, N. Y.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Weigand, Edwin L., Co., 7507 Thomas Blvd., Pittsburgh 8, Pa.

### 69. DRYERS – Tunnel Type

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Canning Machinery Co., 5105 S.W. 45th Ave., Portland 1, Oregon
Greer, J. W., Company, Wilmington, Mass.
Proctor & Schwartz, Inc., 7th St. & Tabor Road, Philadelphia 20, Pa.
Weigand, Edwin L., Co., 7507 Thomas Blvd., Pittsburgh 8, Pa.

### 70. DUMPERS – Raw Product

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
General Nailing Machine Corp., P. O. Box 337, Sanger, Calif.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.

### 71. EVAPORATORS

Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
A.P.V. Co., Inc., 137 Arthur St., Buffalo 7, N. Y.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Hunt, Rodney, Machine Co., 181 Vale St., Orange, Mass.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.
Mojonnier Bros. Co., 4601 West Ohio St., Chicago 44, Ill.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Tranter Manufacturing, Inc., Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9, Mich.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wisc.

### 72. EXHAUSTERS – Steam, Hot Water

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Berlin Chapman Co., Berlin, Wisc.
Canning Machinery Co., 5105 S.W. 45th Ave., Portland 1, Oregon
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.

### 73. EXTRACTORS – Juice or Pulp

American Machine and Metals, Inc., Niagara Pressure Filters Div., East Moline, Ill.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
American Machine and Metals, Inc., Tolhurst Centrifugals Div., East Moline, Ill.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 74. FEEDERS

Chemetron Corp., Girdler Process Equipment Div., 334 E. Broadway, Louisville 1, Ky.
Dole, James, Engineering Co., 1400 Industrial Way, P. O. Box 808, Redwood City, Calif.
Frazier & Son, 20-02 Industrial West, Allwood, Clifton, N. J.
Eryle Co., 1539 Folsom St., San Francisco 3, Calif.
Hope Machine Co., 9405 State Rd., Philadelphia 14, Pa.
B. F. Goodrich Industrial Products Company, Plastic Products Div., P.O. 640, Marrietta, Ohio
Mandrel Industries, Electric Sorting Machine Div., 5134 Glenmont, P. O. Box 13243, Houston 19, Tex.

### 75. FILLING MACHINES – Can

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Bellingham Chain & Forge Co., 653 Skinner Building, Seattle 1, Wash-
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Chemetron Corp., Girdler Process Equipment Div., 334 E. Broadway, Louisville 1, Ky.
Elgin Mfg. Co., 200 Brook St., Elgin, Ill.
Filler Machine Co., Inc., The, 10 Penn Ave., Rockledge, Philadelphia 11, Pa.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Frazier & Son, 20-02 Industrial West Allwood, Clifton, N. J.
Hope Machine Co., 9400 State Rd., Philadelphia 14, Pa.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
MRM Company, Inc., 191 Berry St., Brooklyn 11, N. Y.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Solbern Mfg. Corp., 120-13th St., Brooklyn, N. Y.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 76. FILLING MACHINES – Glass

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Bellingham Chain & Forge Co., 653 Skinner Building, Seattle 1, Washington
Berlin Chapman Co., Berlin, Wisc.
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Elgin Mfg. Co., 200 Brook St., Elgin, Ill.
Eyrle Co., 1539 Folsom St., San Francisco 3, Calif.
Filler Machine Co., Inc., The, 10 Penn Ave., Rockledge, Philadelphia 11, Pa.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Frazier & Son, 20-02 Industrial West, Allwood, Clifton, N. J.
Hope Machine Co., 9400 State Rd., Philadelphia 14, Pa.
Horix Mfg. Co., Corliss Station, Pittsburgh, Pa.

Jocobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
MRM Company, Inc., 191 Berry St., Brooklyn 11, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Solbern Mfg. Corp., 120-13th St., Brooklyn, N. Y.

### 77. FILLING MACHINES – Hand Pack

Albertoli, John, 418 Beach St., San Francisco, Calif.
American Machinery Co., 420 Market St., San Francisco 11, Calif.
Bellingham Chain & Forge Co., 653 Skinner Building, Seattle 1, Washington
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Filler Machine Co., Inc., The, 10 Penn Ave., Rockledge, Philadelphia 11, Pa.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Hope Machine Co., 9400 State Rd., Philadelphia 14, Pa.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Solbern Mfg. Corp., 120-13th St., Brooklyn, N. Y.

### 78. FILLING MACHINES – Plunger

American Machine and Metals, Inc., Niagara Filters Div., Thomas St., East Moline, Ill.
American Machinery Co., 420 Market St., San Francisco 11, Calif.
Bellingham Chain & Forge Co., 653 Skinner Building, Seattle 1, Washington
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Celulo Co., The, 1321 First St., Sandusky, Ohio
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Filler Machine Co., Inc., The, 10 Penn Ave., Rockledge, Philadelphia 11, Pa.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Graver Water Conditioning Co., 216 W. 14th St., Dept. F., New York 11, N.Y.
Green Bay Foundry & Machine Works, 401 S. Broadway, Green Bay, Wisc.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 79. FILTERS

Flexonics Corp., 1417 S. 3rd Ave., Maywood, Ill.
American Machine and Metals, Inc., Filtration Engineers Vacuum Filters Div., East Moline, Ill.
American Machine & Metals, Inc., Niagara Filters Div., 548 Packer St., East Moline, Ill.
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Cellulo Co., The, P. O. Box 686, Sandusky, Ohio
Ladish Co., Tri-Clover Div., 2809—60th St., Kenosha, Wisc.
Sparkler Mfg. Co., 169 Lake St., Mundelein, Ill.

### 80. FILTER AIDS

A.P.V. Co., Inc., 137 Arthur St., Buffalo 7, N. Y.
Cellulo Co., The, P. O. Box 686, Sandusky, Ohio


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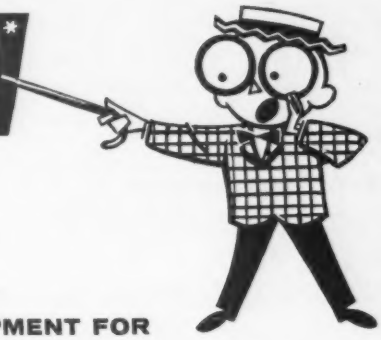

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# Section A
## Processing Equipment

Crucible Steel Company of America, H. W. Oliver Bldg., Mellon Square, Pittsburgh 22, Pa.
Great Lakes Carbon Corp., Dicalite Dept., 612 S. Flower St., Los Angeles 17, Calif.
Ronningen-Petter Company, 330 S. 27th St., Vicksburg 1, Mich.
Sperry, D. R. Co., 19 FP State Road, North Aurora, Ill.
Johns-Manville, 22 East 40th St., New York 16, N. Y.

### 80A. FITTINGS—Corrosion

Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Ladish Co., Tri-Clover Div., 2809—60th St., Kenosha, Wisc.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio

### 81. FITTINGS – Sanitary

Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Corning Glass Works, Corning, N. Y.
Hose Accessories Co., LE-HI Div., 2710 N. 17th St., Philadelphia 32, Pa.
Ladish Co., Tri-Clover Div., 2809—60th St., Kenosha, Wisc.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.

### 81A. FRYERS, PREPARED FOOD

### 82. GAUGES – Liquid Level

Jerguson Gage & Valve Co., Adams St., Burlington, Mass.

### 83. GAUGES – Pressure & Vacuum

Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Clayton Mfg. Co., P. O. Box 550, El Monte, Calif.
Dudley Machinery Corp., 2750 Scott Lane, P. O. Box 150, Santa Clara, Calif.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
Johnston Brothers, Inc., Ferrysburg, Mich.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton St., Skokie 82, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Wallace & Tiernan, Inc., 25 Main St., Belleville 9, N. J.

### 84. GENERATORS – Steam

Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.

### 85. GRADERS – Fruit

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Berlin Chapman Co., Berlin, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Reinhardt, H. A., Co., Inc., P. O. Box 437, Newtown Station, Cincinnati 44, Ohio
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 86. GRADERS – Vegetable

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Ferrell, A. T. and Co., 1621 Wheeler St., Saginaw, Mich.
Dudley Machinery Corp., 2750 Scott Lane, P. O. Box 150, Santa Clara, Calif.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Standard Machine Co., P. O. Box 103, Canton, Mo.
United Company, The, Tuc Road, Westminster, Md.

### 87. GRADERS – Quality

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.

### 88. GRINDERS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
Sanitary Scale Co., Belvidere, Ill.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 89. HEAT EXCHANGERS

Acme Industries, Inc., 601 N. Mechanic St., Jackson, Mich.
American Machinery Co., 420 Market St., San Francisco 11, Calif.
APV Co., Inc., 137 Arthur, Buffalo 7, N. Y.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Berlin Chapman Co., Berlin, Wisc.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Corning Glass Works, Corning, N. Y.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Crucible Steel Company of America, H. W. Oliver Bldg., Mellon Square, Pittsburgh 22, Pa.
Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.
Lee Metal Products Co., Inc., 408 Pine St., Philipsburg, Pa.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Pressed Steel Tank Co., 1466 South 66th St., Milwaukee 14, Wisc.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Tranter Manufacturing, Inc., Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9, Mich.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wisc.
Wiegand, Edwin L., Co., 7760 Thomas Blvd., Pittsburgh 8, Pa.

### 90. HEAT TRANSFER EQUIPMENT

Acme Industries, Inc., 601 N. Mechanic St., Jackson, Mich.
APV Co., Inc., 137 Arthur, Buffalo 7, N. Y.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Berlin Chapman Co., Berlin, Wisc.
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Girdler Co., The, Votator Division, 224 E. Broadway, Louisville 1, Ky.
Homestead Valve Mfg. Co., P. O. Box 348, Caraopolis, Pa.
Hunt, Rodney, Machine Co., 181 Vale St., Orange, Mass.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.
Lee Metal Products Co., Inc., 408 Pine St., Philipsburg, Pa.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
Tranter Manufacturing, Inc., Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9, Mich.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wisc.
Wiegand, Edwin L., Co., 7760 Thomas Blvd., Pittsburgh 8, Pa.

### 91. HEATERS – Immersion

Hauck Mfg. Co., 150-160 Tenth St., Brooklyn 15, N. Y.
Wiegand, Edwin L., Co., 7760 Thomas Blvd., Pittsburgh 8, Pa.
Weigand, Edwin L., Co., 7507 Thomas Blvd., Pittsburgh 8, Pa.

### 91A. HEATERS—Instantaneous

Weigand, Edwin L., Co., 7507 Thomas Blvd., Pittsburgh 8, Pa.

### 92. HOMOGENIZERS

Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Logeman, C. W., Co., 633 Bergen St., Brooklyn 38, N. Y.
Manton-Gaulin Mfg. Co., Inc., 44 Garden St., Everett 49, Mass.
Miller, Franklin P., & Son, Inc., 30 Meadow St., East Orange, N. J.
Pfaudler Permutit, Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
United Company, The, Tuc Road, Westminster, Md.

### 93. HOPPERS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Simplicity Engineering Co., Oak St., Durand, Mich.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
United Company, The, Tuc Road, Westminster, Md.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 94. HOSE – Air, Steam, Water

Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Flexonics Corp., 1315 S. 3rd Ave., Maywood, Ill.
Goodrich, B. F., Industrial Products Co., Akron 18, Ohio
Lee Rubber & Tire Corp., Republic
Propper Mfg. Co., Inc., 44th Drive, Long Island City, New York
Rubber Div., 1410 Albert St., Youngstown 1, Ohio
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willett St., Passaic, N. J.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Thermoid Co., 200 Whitehead Road, Trenton 6, N. J.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 95. INDICATORS – Cooking

Asceptic-Thermo Indicator Co., 11471 Vanowen St., North Hollywood, Calif.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Propper Mfg. Co., 10-34—44th Drive, Long Island City 1, N. Y.

### 96. INDICATORS – Dry Level

Bin-Dicator Co., 13946 Kercheval, Detroit 15, Mich.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio

### 98. INSTRUMENTS

Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Foxboro Company, The, Foxboro, Mass.
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Potter Instrument Co., Inc., Sunnyside Blvd., Plainview, N. Y.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Robertshaw-Fulton Controls Company, The Instrument Division, 2920 North 4th St., Philadelphia 33, Pa.
Taylor Instrument Co., P.O. Box 110, Rochester 1, N.Y.
Texas Instruments Inc., 3609 Buffalo Speedway, Houston 6, Tex.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 99. KETTLES – Corrosion Resistant

Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Pressed Steel Tank Co., 1466 South 66th St., Milwaukee 14, Wisc.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Stainless Products Corp., 314 Reed St., Belding, Mich.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 100. KETTLES – Mechanical Mixing

Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.


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# Section A

## Processing Equipment

Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.
Stainless Products Corp., 314 Reed St., Belding, Mich.
United Company, The, Tuc Road, Westminster, Md.

### 101. KETTLES – Steam Jacketed

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Greer, J. W., Company, Wilmington, Mass.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Jocobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Pfaudler Co.,The, 1000 West Ave., Rochester 3, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Stainless Products Corp., 314 Reed St., Belding, Mich.
Wear-Ever Aluminum, Inc., Wear-Ever Bldg., 10th Ave. & 11th St., New Kensington, Pa.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 102. KETTLES – Tilting

Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Chisholm-Ryder Company, Inc., Drawer F, Bridge, Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Stainless Products Corp., 314 Reed St., Belding, Mich.
Wear-Ever Aluminum, Inc., Wear-Ever Bldg., 10th Ave. & 11th St., New Kensington, Pa.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 103. LAMPS – Bactericidal

Atlantic Ultraviolet Co., 24-10 40th Ave., Long Island City 1, N. Y.
Hanovia Chemical & Mfg. Co., Germicidal Equipment Div., 100 Chestnut St., Newark 5, N. J.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.
Stainless Products Corp., 314 Reed St., Belding, Mich.

### 104. METAL DETECTORS

Stainless Products Corp., 314 Reed St., Belding, Mich.

### 105. METERS – Flow

B-I-F Industries, Inc., 423 Harris Ave., Providence 1, R. I.

Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Neptune Meter Co., 19 W. 50th St., New York 20, N. Y.
Rockwell Mfg. Co., 400 N. Lexington Ave., Dept. 608, Pittsburgh 8, Pa.

### 106. MILLS – Attrition

Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Stainless Products Corp., 314 Reed St., Belding, Mich.
United Company, The, Tuc Road, Westminster, Md.

### 106A. MILLS–Colloid

Manton-Gaulin Mfg. Co., Inc., 44 Garden St., Everett 49, Mass.
Miller, Franklin P., & Son, Inc., 30 Meadow St., East Orange, N. J.
Pfaudler Permutit, Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.

### 107. MILLS – Hammer and Ring

Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Miller, Franklin P. & Son, Inc., 3 Meadow St., East Orange, N. J.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.

### 108. MILLS–Pebble & Ball

Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Rietz Mfg. Co., 170 Todd Rd., Santa Rosa, Calif.
(Branch plant at 939 S. Matlack Rd., West Chester, Pa.)
United States Stoneware Co., The, Tallmadge Circle, Akron 9, Ohio

### 109. MIXERS, AGITATORS, STIRRERS

Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Brookfield Eng'ng Labs., Inc., 1000 Cushing St., Stoughton, Mass.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Girdler Co., The, Votator Division, 224 E. Broadway, Louisville 1, Ky.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Lee Metal Products Co., Inc., 408 Pine St., Philipsburg, Pa.
Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Mixing Equipment Co., Inc., 135 Mt. Read Blvd., Rochester 11, N. Y.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Pfaudler Permutit, Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Reinhardt, H. A., Co., Inc., 77 Church St., Newtown, Ohio
Reynolds Electric Company, 300 River Road, Dept. FP, River Grove, Ill.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Stainless Products Corp., 314 Reed St., Belding, Mich.
United Company, The, Tuc Road, Westminster, Md.

### 110. MOTORS – Electric

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Electric Products Company, The, 1725 Clarkstone Rd., Cleveland 12, O.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Hamachek, Frank, Machine Co., 97 Ellis St., Kewaunee, Wisc.
Reliance Elec. and Engrg. Co., 24701 Euclid Ave., Cleveland 17, Ohio
Reynolds Electric Company, 3000 River Road, Dept. FP, River Grove, Ill.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Rockwell Mfg. Co., 400 N. Lexington Ave., Dept. 608, Pittsburgh 8, Pa.
U. S. Electrical Motors, Inc., 201 E. Slauson, Los Angeles 54, Calif.

### 111. MOTORS – Gear

Cone-Drive Gears, 7171 E. McNichols Rd., Detroit 12, Mich.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Falk Corporation, 3095 W. Canal St., Milwaukee 1, Wisc.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Reliance Elec. and Engrg. Co., 24701 Euclid Ave., Cleveland 17, Ohio

### 112. NOZZLES – Spray

Bahnson Company, The, 2060 So. Marshall St., Winston-Salem, N. C.
Chain Belt Company, 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Green Bay Foundry & Machine Works, 401 S. Broadway, Green Bay, Wisc.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Logeman, C. W., Co., 633 Bergen St., Brooklyn 38, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 113. PASTEURIZERS – Bottle, Can

American Machinery Co., 420 Market St., San Francisco 11, Calif.
American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Barry-Wehmiller Machinery Company, 4660 West Florissant Ave., St. Louis 15, Mo.
Canning Machinery Company, 4525 S.W. Lee St., Portland 19, Ore.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Mfg. Co., 64 Peerless St., Brocton, N. Y.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. .
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.

### 114. PASTEURIZERS, PREHEATERS

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
APV Co., Inc., 137 Arthur, Buffalo 7, N. Y.
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Girdler Co., The, Vetator Division, 224 E. Broadway, Louisville 1, Ky.
Reinhardt, H. A., Co., Inc., P. O. Box 437, Newtown Station, Cincinnati 44, Ohio
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.
Weigand, Edwin L., Co., 7507 Thomas Blvd., Pittsburgh 8, Pa.

### 115. PEELERS – Fruit and Vegetable

Boutell Manufacturing Co., 55 .Lois Street, Rochester 6, N. Y.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Reynolds Electric Company, 3000 River Road, Dept. FP, River Grove, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Toledo Scale Corp., Toledo Scale Div. Toledo 12, Ohio

### 116. PEELING TABLES

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Berlin Chapman Co., Berlin, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Link-Belt Co., Dept. FPGL-58, Prudential Plaza, Chicago 1, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 117. PIPE – Corrosion Resistant

Barnstead Still & Sterilizer Company, 2 Langsville Terrace, Boston 31, Mass.
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Corning Glass Works, Corning, N. Y.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Crucible Steel Company of America, H. W. Oliver Bldg., Mellon Square, Pittsburgh 22, Pa.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich, B. F., Industrial Products Co., Akron 18, Ohio
Metalweld, Inc., Protective Coatings Div., Scotts Lane and Abbottsford Ave., Philadelphia, Pa.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.

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United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
United States Stoneware Co., The, Tallmadge Circle, Akron 9, Ohio

### 118. PITTING MACHINES

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Manufacturing Co., Inc., Brocton, N. Y.

### 119. PRESSES – Pulp

Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.

### 120. PULPERS

American Machine and Metals, Inc., Filtration Engineers Vacuum Filters Div., East Moline, Ill.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y .
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Goulds Pumps, Inc., 240 Fall Ct., Seneca Falls, N. Y.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Miller, Franklin P., & Son, Inc., 30 Meadow St., East Orange, N. J.
Rietz Mfg. Co., 142 Todd Road, Santa Rosa, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 121. PUMPS – Centrifugal

Buffalo Forge Co., 490 Broadway, Buf-Buffalo 5, N. Y.
Cellulo Co., The, P. O. Box 686, Sandusky, Ohio
Chain Belt Company, 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Gardner-Denver Co., Front St., Quincy, Ill.
Key Equipment Company, P. O. Box 1036, 217 E. Broadway, Milton-Freewater, Ore.
Ladish Co., Tri-Clover Div., 2809—60th St., Kenosha, Wisc.
New York Air Brake Co., Aurora Pump Div., 113 Loucks St., Aurora, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio
Worthington Corp., 401 Worthington Ave., Harrison, N. J.

### 122. PUMPS – Corrosion Resistant

Buffalo Forge Co., 490 Broadway, Buf-Buffalo 5, N. Y.
Chain Belt Co., 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Ladish Co., Tri-Clover Div., 2809—60th St., Kenosha, Wisc.
New York Air Brake Co., Aurora Pump Div., 113 Loucks St., Aurora, Ill.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio
Stainless Products Corp., 314 Reed St., Belding, Mich.
United States Stoneware Co., The, Tallmadge Circle, Akron 9, Ohio
Viking Pump Co., 4th & McLarnan St., Cedar Falls, Iowa
Waukesha Foundry Co., P. O. Box 497, Waukesha, Wisc.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.

### 123. PUMPS – Displacement

Cellulo Co., The, P. O. Box 686, Sandusky, Ohio
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Electronic Processes Corp. of Calif., 2190 Folsom St., Suite 314, San Francisco 10, Calif.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Food Machinery & Chemical Corp., John Bean Division, P. O. Box 840, Lansing 4, Mich.
Key Equipment Company, P. O. Box 1036, 217 E. Broadway, Milton-Freewater, Ore.
Ledeen Mfg. Co., 3350 No. Gilman Road, El Monte, Calif.
Manton-Gaulin Mfg. Co., Inc., 44 Garden St., Everett 49, Mass.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio
Stainless Products Corp., 314 Reed St., Belding, Mich.
Viking Pump Co., 4th & McLarnan Sts., Cedar Falls, Iowa
Waukesha Foundry Co., P. O. Box 497, Waukesha, Wisc.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.
Kromer, O. W., Co., 1120 Emerson Ave., No., Minneapolis 11, Minn.

### 124. RECORDERS – Temperature, Pressure, Vacuum, etc.

Electric Auto-Lite Co., Industrial Thermometer Div., 1201 Champlain St., Toledo 1, Ohio
Powers Regulator Co., The, 3400 Oakton St., Skokie 82, Ill.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.

### 125. REELS – Dewatering

Berlin Chapman Co., Berlin, Wisc.
B-I-F Industries, Inc., 423 Harris Ave., Providence 1, R. I.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Key Equipment Company, P. O. Box 1036, 217 E. Broadway, Milton-Freewater, Ore.
Robins, A.K. & Co., Inc., 713 E. Lombard St.. Baltimore 2, Md.

### 126. REGULATORS – Temperature

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Burling Instrument Co., 20 River Rd., Chatham, N. J.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Robertshaw-Fulton Controls Company, The Instrument Division, 2920 North 4th St., Philadelphia 33, Pa.
Spence Engineering Company, Inc., 29-41 Grant St., Walden, N. Y.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 127. RETORT CRATES

Berlin Chapman Co., Berlin, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 127A. RETORT Crate Loaders

Busse Brothers, Randolph, Wisc.

### 128. RETORTS – Steam Pressure

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Berlin Chapman Co., Berlin, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge, Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 129. SALTERS

International Salt Company, Inc., Scranton, Pa.
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.

### 130. SCALDERS – Fruit & Vegetable

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 131. SCALES – Counter & Platform

Exact Weight Scale Co., 918 W. 5th Ave., Columbus 8, Ohio
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., The, 213 Strongs Ave., Rutland, Vt.
Ohaus Scale Corp., 1050 Commerce Ave., Union, N. J.
Pennsylvania Scale Co., Bareville 2, Pa.
Sanitary Scale Co., Belvidere, Ill.
Toledo Scale Corp., Toledo Scale Div. Toledo 12, Ohio

### 132. SCREENS – Rotary

Green Bay Foundry & Machine Works, 401 So. Broadway, Green Bay, Wisc.
Miller, Franklin P., & Son, Inc., 30 Meadow St., East Orange, N. J.
Newark Wire Cloth Co., 351 Verona Ave., Newark 4, N. J.

### 133. SCREENS – Vibrating

Berlin Chapman Co., Berlin, Wisc.
Boutell Manufacturing Co., 55 Lois Street, Rochester 6, N. Y.
Cambridge Wire Cloth Co., Cambridge, Md.
Colorado Fuel and Iron Corp., The, Wickwire Spencer Steel Div., 575 Madison Ave., New York 22, N. Y.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Key Equipment Company, P. O. Box 1036, 217 E. Broadway, Milton-Freewater, Ore.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Miller, Franklin P., & Son, Inc., 30 Meadow St., East Orange, N. J.
Newark Wire Cloth Co., 351 Verona Ave., Newark 4, N. J.
Productive Equipment Corp., 2926 W. Lake St., Chicago 12, Ill.
Reinhardt, H. A., Co., Inc., 77 Church St., Newtown, Ohio
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Simplicity Engineering Co., 200 Oak St., Durand, Mich.
United Company, The, Tuc Road, Westminster, Md.

### 134. SEPARATORS – Centrifugal

Howe Scale Co., The, Rutland, Vt.
American Machine and Metals, Inc., Tolhurst Centrifugals Div., East Moline, Ill.
Electric Sorting Machine Co., 5134 Glenmont, P. O. Box 13243, Houston, Texas
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.

### 135. SEPARATORS – Fruit & Vegetable

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
United Company, The, Tuc Road, Westminster, Md.

### 136. SEPARATORS – Magnetic

CESCO, 4025 Sebastopol Hwy., Santa Rosa, Calif.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio

### 137. SLICERS

Albertoli, John, 418 Beach St., San Francisco, Calif.
Alto Corporation, 333 Seventh Ave., York, Pa.
Boutell Manufacturing Co., 55 Lois Street, Rochester 6, N. Y.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Miller, Franklin P., & Son, Inc., 30 Meadow St., East Orange, N. J.
Reinhardt, H. A., Co., Inc., 77 Church St., Newtown, Ohio
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Sanitary Scale Co., Belvidere, Ill.
Urschel Laboratories, Inc., Valparaiso, Ind.

### 138. SORTING MACHINES

Electric Sorting Machine Co., 5134 Glenmont, P. O. Box 13243, Houston, Texas
Standard Machine Co., P.O. Box 103, Canton, Mo.

1908 Our 50th Year 1958

For accurate grading of Pickles and Similar Vegetables

THE NATIONAL PICKLE SEPARATOR

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The Standard Machine Co.

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FA-3500

Variable speed from 900 to 1000 vibrations per minute! Removes water, most splits and skins, and spreads commodity evenly over the screen (ideal for use ahead of inspection table). Hickory slats absorb vibration . . . no carry-through to floor! Feed height 22", discharge height 16½". Longer legs available.

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Handles any commodity that can be elevated and conveyed in water. Accurate control of water level, feed hopper only 20½" off the floor, at the pre-mixing chamber for easy loading from low discharge units . . . Motor is high and dry and fully protected from steam and water. Choice of 3", 4", 5" and 6" pumps. Variable speed drive, stainless hopper and/or contact parts optional.

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# Section A

## Processing Equipment

Berlin Chapman Co., Berlin, Wisc.
Mandrel Industries, Electric Sorting Machine Div., 5134 Glenmont, P. O. Box 13243, Houston 19, Tex.

### 139. SORTING TABLES

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 140. STEAM TRAPS

Armonstrong Machine Works, 973 Maple St., Three Rivers, Mich.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.

### 141. STEMMERS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.

### 142. STILLS

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Barnstead Still & Sterilizer Company, 2 Langsville Terrace, Boston 31, Mass.
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Pfaudler Permutit, Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.

### 143. STRAINERS AND FILTERS

American Machine and Metals, Inc., Filtration Engineers Vacuum Filters Div., East Moline, Ill.
American Machine and Metals, Inc., Niagara Pressure Filters Div., East Moline, Ill.
Cellulo Co., The, P. O. Box 686, Sandusky, Ohio
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Green Bay Foundry & Machine Works, 401 So. Broadway, Green Bay, Wisc.
Greer, J. W., Company, Wilmington, Mass.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Kromer, O. W., Co., 1120 Emerson Ave., No., Minneapolis 11, Minn.
Newark Wire Cloth Company, 351 Verona Ave., Newark 4, N. J.
Ronningen-Petter Company, 330 S. 27th St., Vicksburg 1, Mich.
Spence Engineering Company, Inc., 29-41 Grant St., Walden, N. Y.

### 144. STRAINERS – Citrus Juice

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Hauck Mfg. Co., 150-160 Tenth St., Brooklyn 15, N. Y.
Newark Wire Cloth Company, 351 Verona Ave., Newark 4, N. J.
Ronningen-Petter Company, 330 S. 27th St., Vicksburg 1, Mich.

### 145. STRAINERS – Tomato Juice

American Machine and Metals, Inc., Niagara Pressure Filters Div., East Moline, Ill.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Logeman, C. W., Co., 633 Bergen St., Brooklyn 38, N. Y.
Newark Wire Cloth Company, 351 Verona Ave., Newark 4, N. J.
Ronningen-Petter Company, 330 S. 27th St., Vicksburg 1, Mich.

### 146. SYRUPERS

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
C. W. Logeman Company, 633 Bergen St., Brooklyn 38, N.Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 147. TANKS – Brass & Copper

Barnstead Still & Demineralize Co., 2 Langsville Terrace, Boston 31, Mass.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.

### 148. TANKS – Corrosion Resistant

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Atlas Mineral Products Company, Mertztown, Pa.
American Machinery Corp., P. O. Box 3228, Orlando, Florida
American Machine and Metals, Inc., Niagara Filters Div., Thomas St., East Moline, Ill.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Berlin Chapman Co., Berlin, Wisc.
Boutell Mfg. Co., 558 Lyell Ave., Rochester 6, N. Y.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Hauser-Stander Tank Co., The, 4816 Spring Grove Ave., Cininnati 32, Ohio
Hunt, Rodney, Machine Co., 181 Vale St., Orange, Mass.
Kromer, O. W., Co., 1120 Emerson Ave., No., Minneapolis 11, Minn.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind.
Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Mojonnier Bros. Co., 4601 W. Ohio, Chicago 44, Ill.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Pressed Steel Tank Co., 1445 S. 66th St., Milwaukee 14, Wisc.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Stainless Products Corp., 314 Reed St., Belding, Mich.
United Company, The, Tuc Road, Westminster, Md.
United States Stoneware Co., The, Tallmadge Circle, Akron 9, Ohio

### 148A. TANKS–Steel

Berlin Chapman Co., Berlin, Wisc.
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Kromer, O. W., Co., 1120 Emerson Ave., No., Minneapolis 11, Minn.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.
Mojonnier Bros. Co., 4601 W. Ohio, Chicago 44, Ill.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.

### 149. TANKS – Wood

Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Frick Co., West Main St., Waynesboro, Pa.
Hall, Amos H. & Sons, 5510 N. Water St., Philadelphia 20, Pa.
Hauser-Stander Tank Co., 4816 Spring Grove Ave., Cincinnati 32, Ohio
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Pressed Steel Tank Co., 1445 S. 66th St., Milwaukee 14, Wisc.

### 150. TANK COVERS – Sanitary

Adair, Robin W., Co., Inc., Box 248, Avoca, N. Y.

### 151. THERMOMETERS – Indicating

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Electric Auto-Lite Co., Industrial Thermometer Div., 1201 Champlain St., Toledo 1, Ohio
Fenwal, Incorporated, Pleasant Street, Ashland, Mass.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Lee Metal Products Co., Inc., 408 Pine St., Philipsburg, Pa.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 152. THERMOSTATS

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Burling Instrument Co., 20 River Rd., Chatham, N. J.
Fenwal, Incorporated, Pleasant Street, Ashland, Mass.
Flexonics Corp., 1315 S. 3rd Ave., Maywood, Ill.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.

### 153. TUBING – Flexible

American Machine and Metals, Inc., Niagara Filters Div., Thomas St., East Moline, Ill.
Crucible Steel Company of America, H. W. Oliver Bldg., Mellon Square, Pittsburgh 22, Pa.
Flexonics Corp., 1315 S. 3rd Ave., Maywood, Ill.

Garlock Packing Company, United States Gasket Company Plastics Div., 610 N. 10th St., Camden 1, Pa.
B. F. Goodrich Industrial Products Company, Plastic Products Div., P.O. 640, Marrietta, Ohio
Hauck Mfg. Co., 150-160 Tenth St., Brooklyn 15, N. Y.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willett St., Passaic, N. J.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Shamban, W. S. & Co., 11617 W. Jefferson Blvd., Culver City, Calif.
United Electric Controls Co., 85 School St., Watertown 72, Mass.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 154. TUBING – Stainless Steel

Cherry-Burrell Corp., 427 W. Randolph St., Chicago 6, Ill.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Crucible Steel Company of America, H. W. Oliver Bldg., Mellon Square, Pittsburgh 22, Pa.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Ladish Co., Tri-Clover Div., 2809—60th St., Kenosha, Wisc.
Republic Steel, 3100 E. 45th St., Cleveland 27, Ohio
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio

### 155. VACUUM PANS

Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. .
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Lee Metal Products Co., Inc., West Pine St., Philipsburg, Pa.
Mojonnier Bros. Co., 4601 West Ohio St., Chicago 44, Ill.
Parker, Allan W., Co., 420 Market St., San Francisco 11, Calif.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.

### 156. VALVES – Diaphragm

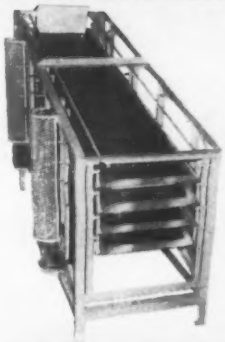
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
General Gas Light Co., Humphrey Products Division, 202-226 N. Park St., Kalamazoo, Mich.
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio
Klipfel Valves, Inc., 1075 Lincoln Ave., Hamilton, Ohio
Ladish Co., Tri-Clover Div., 2809—60th St., Kenosha, Wisc.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Spence Engineering Company, Inc., 29-41 Grant St., Walden, N. .

### 157. VALVES – Gate, Globe & Check

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.


FOOD *Processing* EQUIPMENT
for the canner and packer

BERLIN CHAPMAN 12 FT. SHAKER GRADER



Designed for high capacity, rapid change-over, quick wash out, with minimum cost, the new BERLIN CHAPMAN 12' Shaker Grader is as accurate as a grader can be — nearly 100%. Squeegee cleaning action of rubber wipers is one of its construction features . . . will handle high capacities of raw peas or similar vegetables.

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- TOMATO PROCESSING
- PEA PROCESSING
- JUICE PROCESSING
- CORN PROCESSING

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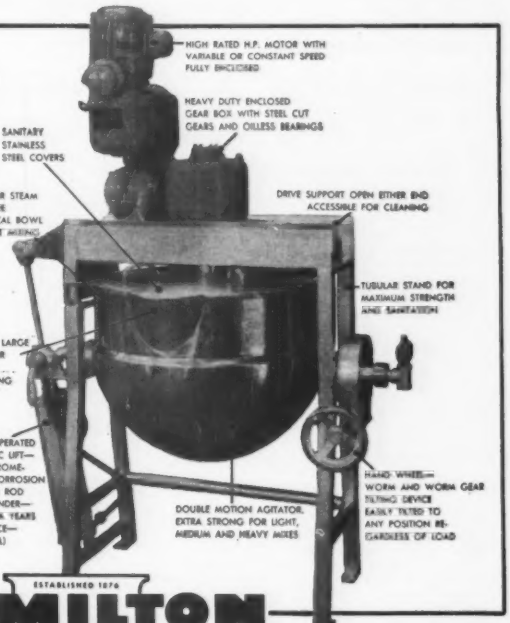
For Your Cooking and Mixing Jobs

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HAMILTON CW-TILTING TYPE MIX-COOKER
60 GAL ILLUSTRATED—SIZES 30 TO 150 GAL

# Section A

## Processing Equipment

Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wisc.
Fairbanks Company, The, 393 Lafayette St., New York 3, N. Y.
Jerguson Gage & Valve Co., Adams St., Burlington, Mass.
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio
Ladish Co., Tri-Clover Div., 2809—60th St., Kenosha, Wisc.
Powell, Wm., Co., 2525 Spring Grove Ave., Cincinnati 22, Ohio
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Rockwell Mfg. Co., 400 N. Lexington Ave., Dept. 608, Pittsburgh 8, Pa.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wisc.

### 158. VALVES – Motor Operated

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Powers Regulator Co., The, 3400 Oakton St., Skokie 82, Ill.
Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
Hauck Mfg. Co., Dept. FP, 126-134 Tenth St., Brooklyn 15, N. Y.
Homestead Valve Mfg. Co., P. O. Box 348, Caraopolis, Pa.
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio
Klipfel Valves, Inc., 1075 Lincoln Ave., Hamilton, Ohio
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powell, Wm., Co., 2525 Spring Grove Ave., Cincinnati 22, Ohio
Rockwell Mfg. Co., 400 N. Lexington Ave., Dept. 608, Pittsburgh 8, Pa.

### 159. VALVES – Solenoid

Bristol Company, The, P. O. Box 1790 FPBG, Waterbury 20, Conn.
Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wisc.
Gould, J. D., Co., 4707 Massachusetts Ave., Indianapolis 18, Ind.
Hauck Mfg. Co., Dept. FP, 126-134 Tenth St., Brooklyn 15, N. Y .
Homestead Valve Mfg. Co., P. O. Box 348, Coraopolis, Pa.
General Gas Light Co., Humphrey Products Division, 202-226 N. Park St., Kalamazoo, Mich.
Ledeen Mfg. Co., 3350 No. Gilman Road, El Monte, Calif.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Spence Engineering Company, Inc., 29-41 Grant St., Walden, N. .

### 160. WASHERS – Fruit & Vegetable

American Machine and Metals, Inc., Tolhurst Centrifugals Div., East Moline, Ill.
American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Berlin Chapman Co., Berlin, Wisc.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Huntley Manufacturing Co., Inc., Brocton, N. Y.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Key Equipment Company, P. O. Box 1036, 217 E. Broadway, Milton-Freewater, Ore.
Langsenkamp, F. H., Co., 229 E. South St., Indianapolis 25, Ind.
Reinhardt, H. A., Co., Inc., 77 Church St., Newtown, Ohio
Robins, A.K. & Co., Inc., 713 E. Lombard St., Baltimore 2, Md.
Sheboygan Machine Co., P. O. Box 1, Sheboygan, Wisc.
United Company, The, Tuc Road, Westminster, Md.

### 161. WATER PURIFYING EQUIPMENT

American Machine and Metals, Inc., Niagara Filters Div., Thomas St., East Moline, Ill.
Barnstead Still & Demineralize Co., 2 Langsville Terrace, Boston 31, Mass.
Graver Water Conditioning Co., Dept. FP, 216 W. 14th St., New York 11, N. Y.
Green Bay Foundry & Machine Works, 401 So. Broadway, Green Bay, Wisc.
Hanovia Chemical & Mfg. Co., Germicidal Equipment Div., 100 Chestnut St., Newark 5, N. J.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio

# SECTION B

# food ingredients and raw materials

### 1. ACIDS – Edible

Clinton Corn Processing Company, Clinton, Iowa
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Merck & Co., Inc., Rahway, N. J.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.

### 2. ALUM

Allied Chemical & Dye Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.

### 3. ANTIOXIDANTS

Basic Foods Materials, Inc., 845 State St., Vermilion, Ohio
Eastman Chemical Products, Inc., Chem. Div., Kingsport, Tenn.
Fritzsche Brothers, Inc., 76 Ninth Ave., New York 11, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Hercules Powder Company, 900 Market St., Wilmington 99, Del.
Hoffmann-LaRoche, Inc., Vitamin Div., Roche Park, Nutley, N. J.
Merck & Co., Inc., Rahway, N. J.
Miles Laboratories, Inc., Takamine Laboratory, 193 Arlington Ave., Clifton N. J.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.
Staley, A. E., Mfg. Co., Decatur, Ill.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 4. ASCORBIC ACID

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Hoffmann-LaRoche, Inc., Vitamin Div., Roche Park, Nutley. N. J.
Merck & Co., Inc., Rahway, N. J.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.

### 5. BATTER – Ready Mixed

Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.

### 6. BREADING – Ready Mixed

Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.

### 7. CALCIUM CHLORIDE

Allied Chemical & Dye Corp., Solvay Process Division, 61 Broadway, New York 6, N. Y.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.

### 8. CAROTENE

Barnett Laboratories, Inc., 6256 Cherry Ave., Long Beach 5, Calif.
Egyptian Food Processing & Essential Oil Factory, 3 Baehler St., Cairo, Egypt
Hoffmann-LaRoche, Inc., Vitamin Div., Roche Park, Nutley, N. J.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.

### 9. CITRIC ACID

Miles Laboratories, Inc., Takamine Laboratory, 193 Arlington Ave., Clifton, N. J.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.

### 10. CITRUS FRUIT CONCENTRATES

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Egyptian Food Processing & Essential Oil Factory, 3 Baehler St., Cairo, Egypt
Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Givaudan Flavors, Inc., 330 W. 42nd St., New York 36, N. Y.
Merck & Co., Inc., Rahway, N. J.
Mutual Citrus Products Co., 424 S. Atchison St., Anaheim, Calif.
Sunkist Growers, Inc., Box 2706, Terminal Annex, Los Angeles, Calif.

### 11. COLORS – Certified

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.

Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.
Warner-Jenkinson Mfg. Co. 2526 Baldwin St., St. Louis 6, Mo.

### 12. CREAM OF TARTAR

McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y .

### 13. DEXTRINES

American Maize Products Co., 250 Park Ave., New York 17, N. Y.
Clinton Corn Processing Company, Clinton, Ia.
Morningstar, Nicol, Inc., Paisley Products, Inc., Div., 630 W. 51st Street, New York 19, N. Y.
National Starch Products, Inc., 268 Madison Ave., New York 16, N. Y.
Staley, A. E., Mfg. Co., Decatur, Ill.

### 14. DEXTROSE

Clinton Corn Processing Company, Clinton, Ia.
Merck & Co., Inc., Rahway, N. J.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 15. DILL

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 16. ENZYMES

Miles Laboratories, Inc., Takamine Laboratory, 193 Arlington Ave., Clifton, N. J.

### 17. ESSENTIAL OILS

American Food Laboratories, Inc., 1000 Stanley Ave., Brooklyn 8, N. Y.
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Egyptian Food Processing & Essential Oil Factory, 3 Baehler St., Cairo, Egypt
Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Givaudan Flavors, Inc., 330 W. 42nd St., New York 36, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Hercules Powder Company, 900 Market St., Wilmington 99, Del.
Mutual Citrus Products Co., 424 S. Atchison St., Anaheim, Calif.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 18. FLAVORS & FLAVOR BASES

American Food Laboratories, Inc., 100 Stanley Ave., Brooklyn , N.Y.
Basic Foods Materials, Inc., 845 State St., Vermilion, Ohio
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Givaudan Flavors, Inc., 330 W. 42nd St., New York 36, N. Y.

## Section B

### Food Ingredients

Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Warner-Jenkinson Mfg. Co., 2526 Baldwin St., St. Louis 6, Mo.

### 19. FLOUR

Morningstar, Nicol, Inc., Paisley Products, Inc., Div., 630 W. 51st Street, New York 19, N. Y.

### 20. FLOUR – Soy

Staley, A. E., Mfg. Co., Decatur, Ill.

### 21. GARLIC

Consolidated Foods Corp., Gentry Division, Box 2076-Terminal Annex, Los Angeles 54, Calif.
Egyptian Food Processing & Essential Oil Factory, 3 Baehler St., Cairo, Egypt
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Tulkoff's Horseradish Products Co., 1016 E. Lombard St., Baltimore 2, Md.


SPEAS
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Standard of Quality
for 30 years

BETTER JAMS
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Because...

1 Wide pH Range
2 Uniform Strength
3 Neutral in color and flavor—blends naturally with more different fruits than any other pectin
4 Makes jams & jellies with an even, smooth texture (never grainy) and improved spreadability

• NUTRL-JEL Regular and Slow Set. For Preserves, Jams, Jellies and Marmalades
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Plants in Apple Regions From Coast to Coast Assure Dependable Supply
SPEAS COMPANY, GENERAL OFFICES, KANSAS CITY 20, MISSOURI

# Section B

## Food Ingredients

### 22. GELATIN – Edible

Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.

### 23. GLUCOSE

Clinton Corn Processing Company, Clinton, Ia.

### 24. GUMS – Water Soluble

Morningstar, Nicol, Inc., Paisley Products, Inc., Div., 630 W. 51st Street, New York 19, N.Y.

### 25. MOLASSES

American Molasses Co., 120 Wall St., New York 5, N. Y.

### 26. MONOSODIUM GLUTAMATE

Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Hercules-Powder Co., Huron Milling Div., Wilmington 99, Del.
Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Merck & Co., Inc., Rahway, N. J.
Staley, A. E., Mfg. Co., Decatur, Ill.

### 27. OIL – Corn

Clinton Corn Processing Company, Clinton, Ia.
Staley, A. E., Mfg. Co., Decatur, Ill.

### 28. OIL – Soybean

Staley, A. E., Mfg. Co., Decatur, Ill.

### 29. OLEORESINS

Barnett Laboratories, Inc., 6256 Cherry Ave., Long Beach 5, Calif.
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Hodag Chemical Corp., 7247 N. Central Park, Chicago 45, Ill.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 30. PAPRIKA

Consolidated Foods Corp., Gentry Division, Box 2076-Terminal Annex, Los Angeles 54, Calif.
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Egyptian Food Processing & Essential Oil Factory, 3 Baehler St., Cairo, Egypt
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 31. PECTIN – Apple

Speas Co., 2400 Nicholson Ave., Kansas City 20, Mo.

### 32. PECTIN – Citrus

Mutual Citrus Products Co., 424 S. Atchison St., Anaheim, Calif.

### 33. PEPPER – Black

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.

### 34. PEPPER – Red

Consolidated Foods Corp., Gentry Division, Box 2076-Terminal Annex, Los Angeles 54, Calif.
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Snapp, J. P. & Son, Limestone, Tenn.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 35. PIMENTO

Consolidated Foods Corp., Gentry Division, Box 2076-Terminal Annex, Los Angeles 54, Calif.
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Snapp, J. P. & Son, Limestone, Tenn.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 36. SALT – Bulk

Diamond Crystal Salt Co., 916 S. Riverside, St. Clair, Mich.
International Salt Company, Inc., Scranton, Pa.
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.

### 37. SALT – Tablets

International Salt Company, Inc., Scranton, Pa.
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.

### 38. SEASONINGS – Dry Soluble

Basic Foods Materials, Inc., 845 State St., Vermilion, Ohio
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N. Y.
Frizsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 39. SEASONINGS – Oil Soluble

Basic Foods Materials, Inc., 845 State St., Vermilion, Ohio
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Great Western Sugar Co., Sugar Bldg., Denver, Colo.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 40. SEASONINGS – Water Soluble

Basic Foods Materials, Inc., 845 State St., Vermilion, Ohio
Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N. Y.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 41. SODIUM BENZOATE

Merck & Co., Inc., Rahway, N. J.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y
Seydel Chemical Co., 421 Allwood Rd., Clifton, N. J.

### 42. SODIUM CITRATE

Merck & Co., Inc., Rahway, N. J.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.

### 43. SPICES

Dodge & Olcott, Inc., 180 Varick St., New York 14, N. Y.
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Knickerbocker Mills Co., 601 W. 26th St., New York 1, N. Y.
Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Stange, Wm. J., Co., 342 N. Western Ave., Chicago 12, Ill.

### 44. STABILIZERS & BINDERS

American Food Laboratories, Inc., 1000 Stanley Ave., Brooklyn 8, N. Y.
Basic Foods Materials, Inc., 845 State St., Vermilion, Ohio
Griffith Laboratories, Inc., The, 1415-25 W. 37th St., Chicago 9, Ill.
Hercules Powder Company, 900 Market St., Wilmington 99, Del.
Hubinger Co., 601 Main St., Keokuk, Ia.
Kelco Co., 120 Broadway, New York 5, N. Y.
Mayer, H. J. & Sons Co., Inc., 6811 So. Ashland Ave., Chicago 36, Ill.
Morningstar, Nicol, Inc., Paisley Products, Inc., Div., 630 W. 51st Street, New York 19, N. Y.
National Starch Products, Inc., 268 Madison Ave., New York 16, N. Y.

### 45. STARCH – Corn

American Maize Products Co., 250 Park Ave., New York 17, N. Y.
Clinton Corn Processing Company, Clinton, Ia.
Corn Products Sales Co., 17 Battery Place, New York 4, N.Y.
Hubinger Co., 601 Main St., Keokuk, Ia.
National Starch Products, Inc., 268 Madison Ave., New York 16, N. Y.
Staley, A. E., Mfg. Co., Decatur, Ill.

### 46. SUGAR – Bulk

American Molasses Co., 120 Wall St., New York 5, N. Y.
California & Hawaiian Sugar Refining Corp., Ltd., 215 Market St., San Francisco 5, Calif.
National Sugar Refining, 100 Wall St., New York, N.Y.
Refined Syrups & Sugars, Inc., Federal St., Yonkers, N. Y.
Western Condensing Co., Box 739, Appleton, Wisc.

### 47. SUGAR – Liquid

American Molasses Co., 120 Wall St., New York 5, N. Y.
California & Hawaiian Sugar Refining Corp., Ltd., 215 Market St., San Francisco 5, Calif.
Refined Syrups & Sugars, Inc., Federal St., Yonkers, N. Y.

### 48. SWEETENERS – Calorie-free

Abbott Laboratories, North Chicago, Ill.
du Pont, E. I., de Nemours & Co., Inc., Grasselli Chemicals, Wilmington 98, Del.
Merck & Co., Inc., Rahway, N. J.
Mutual Citrus Products Co., 424 S. Atchison St., Anaheim, Calif.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.

### 49. SWEETENERS – Dietetic

Abbott Laboratories, North Chicago, Ill.
du Pont, E. I., de Nemours & Co., Inc., Grasselli Chemicals, Wilmington 98, Del.
Merck & Co., Inc., Rahway, N. J.
Mutual Citrus Products Co., 424 S. Atchison St., Anaheim, Calif.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.
Western Condensing Co., Box 739, Appleton, Wisc.

### 50. SYRUP – Corn

American Maize Products Co., 250 Park Ave., New York 17, N.Y.
Clinton Corn Processing Company, Clinton, Ia.
Staley, A. E., Mfg. Co., Decatur, Ill.

### 51. TARTARIC ACID

Merck & Co., Inc., Rahway, N. J.
Pfizer, Chas. & Co., Inc., 11 Bartlett St., Brooklyn 6, N. Y.

### 52. VEGETABLE PROTEINS

Basic Foods Materials, Inc., 845 State St., Vermilion, Ohio
Hercules-Powder Co., Huron Milling Div., Wilmington 99, Del.
Staley, A. E., Mfg. Co., Decatur, Ill.

### 53. VINEGAR – Cider

Richter, A. M., Sons Co., 710 Madison St., Manitowoc, Wisc.
Speas Co., 2400 Nicholson Ave., Kansas City 20, Mo.

### 54. VINEGAR – Malt

Richter, A. M., Sons Co., 710 Madison St., Manitowoc, Wisc.

### 55. VINEGAR – White

Richter, A. M., Sons Co., 710 Madison St., Manitowoc, Wisc.
Speas Co., 2400 Nicholson Ave., Kansas City 20, Mo.

## SECTION C

# field machinery & supplies

### 1. BOXES & CRATES

American Box Corp., 2740 Hyde St., San Francisco 19, Calif.
Hinde & Dauch, Box 861 FP, Sandusky, Ohio

### 2. COMBINES – Pea, Lima Bean

Case, J. I., Co., 700 State St., Racine, Wisc.
Champion Corp., 4712 Sheffield, Hammond, Ind.

### 3. CULTIVATORS

Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.

### 4. DRILLS & PLANTERS

Case, J. I., Co., 700 State St., Racine, Wisc.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.

### 5. DUSTERS

Food Machinery & Chemical Corp., John Bean Division, P. O. Box 840, Lansing 4, Mich.

### 6. FERTILIZERS

California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
Case, J. I., Co., 700 State St., Racine, Wisc.
Oliver Corporation, The 400 West Madison St., Chicago 6, Ill.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Spencer Chemical Co., Dwight Bldg., Kansas City 5, Mo.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 7. FUNGICIDES

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
du Pont, E. I., de Nemours & Co., Inc., Grasselli Chemicals, Wilmington 98, Del.
Food Machinery & Chemical Corp., Middleport, N. Y.
Nuodex Products Co., Dept. FP, 1 Virginia St., Newark, N. J.
Olin Mathieson Chemical Corp., Mathieson Building, Baltimore 3, Md.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.



Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Scientific Oil Compounding Company, Inc., Cunilate Division, 1637 S. Kilbourn Ave., Chicago 23, Ill.
Union Carbide Corp., Union Carbide Chemicals Company, Div., 30 East 42nd St., New York 17, N. Y.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.

### 8. HARVESTERS

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Case, J. I., Co., 700 State St., Racine, Wisc.
Champion Corp., 4714 Sheffield Ave., Hammond, Ind.
Food Machinery & Chemical Corp., John Bean Division, P. O. Box 840, Lansing 4, Mich.
Hume, H. D., Co., Mendota, Ill.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.

### 9. INSECTICIDES

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
du Pont, E. I., de Nemours & Co., Inc., Grasselli Chemicals, Wilmington 98, Del.
Food Machinery & Chemical Corp., Niagara Chemical Division FP-8 Middleport, N. Y.
Hercules Powder Company, 900 Market St., Wilmington 99, Del.
McLaughlin Gormley King Co., 1715 Fifth St., S.E., Minneapolis 14, Minn.
Olin Mathieson Chemical Corp., Mathieson Building, Baltimore 3, Md.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Velsicol Chemical Corp., 330 E. Grand Ave., Chicago 11, Ill.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.

### 10. IRRIGATION EQUIPMENT

Case, J. I., Co., 700 State St., Racine, Wisc.
Champion Corp., 4714 Sheffield Ave., Hammond, Ind.
Food Machinery & Chemical Corp., John Bean Division, P. O. Box 840, Lansing 4, Mich.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.

### 11. LOADERS

Case, J. I., Co., 700 State St., Racine, Wisc.

# Section C
## Field Equipment

Hume, H. D., Co., Mendota, Ill.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.

### 12. SEED DISINFECTANTS

California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
du Pont, E. I., de Nemours & Co., Inc., Grasselli Chemicals, Wilmington 98, Del.
Food Machinery & Chemical Corp., Niagara Chemical Div., FP-8, Middleport, N.Y.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.

### 13. SEEDS – Canning and Freezing Varieties

Associated Seed Growers, Inc., 205 Church St., New Haven 2, Conn.
Burpee, W. Atlee, Co., Philadelphia, Pa. & Clinton, Iowa
Cornell Seed Co., 101 Chouteau Ave., St. Louis 2, Mo.
Crescent Farms, Moultrie, Ga.
Crites-Moscow Growers, Inc., Moscow, Ida.
Ferry-Morse Seed Co., P.O. Box 778, Detroit 31, Mich.
Hart, Chas. C., Seed Co., Withersfield 9, Conn.
Morrison Bros. Seed Co., Dishman Branch, P. O. Box 66, Spokane 63, Wash.
Moscow Idaho Seed Co., Box 383, Moscow, Idaho
Northrup, King & Co., 1500 Jackson St., N.E., Minneapolis 13, Minn.
Rogers Bros. Seed Co., P. O. Box 30, Idaho Falls, Idaho
Washburn-Wilson Seed Co., Moscow, Ida.
F. H. Woodruff & Sons, Inc., 9 Depot St., Milford, Conn.

### 14. SOIL FUMIGANTS

California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
du Pont, E. I., de Nemours & Co., Inc., Grasselli Chemicals, Wilmington 98, Del.
Food Machinery & Chemical Corp., John Bean Division, P. O. Box 840, Lansing 4, Mich.
Food Machinery & Chemical Corp., Niagara Chemical Division, FP-8, Middleport, N. Y
Homestead Valve Mfg. Co., P. O. Box 348, Caraopolis, Pa.

### 15. SOIL TESTING SUPPLIES

LaMotte Chemical Products Co., Chestertown, Md.

### 16. SPRAY NOZZLES

Kromer, O. W., Co., 1120 Emerson Ave., North, Minneapolis 11, Minn.

### 17. SPRAYERS – Power

Food Machinery & Chemical Corp., John Bean Division, P. O. Box 840, Lansing 4, Mich.
Kromer, O. W., Co., 1120 Emerson Ave., North, Minneapolis 11, Minn.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.

### 18. SPREADERS

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Case, J. I., Co., 700 State St., Racine, Wisc.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.

### 19. TRACTORS – Farm

Case, J. I., Co., 700 State St., Racine, Wisc.
Caterpillar Tractor Co., Dept. FP, Peoria, Ill.
Oliver Corporation, The, 400 West Madison St., Chicago 6, Ill.

### 20. VINE CLEANERS

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.

### 21. VINERS – Pea & Bean

Hamachek, Frank, Machine Co., 97 Ellis St., Kewaunee, Wisc.

### 22. WEED KILLERS, CHEMICAL

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
du Pont, E. I., de Nemours & Co., Inc., Grasselli Chemicals, Wilmington 98, Del.
Food Machinery & Chemical Corp., Niagara Chemical Division FP-8 Middleport, N. Y.


**Porter-way Harvester . . .**

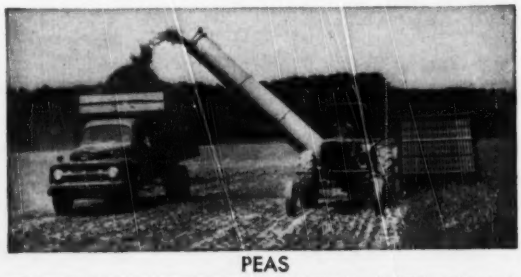
*Versatile, Money-Saving Cutting and Loading Machine*

BROCCOLI HARVESTER

The PORTER-WAY BROCCOLI HARVESTER saves 75% on labor. 10 men walk behind conveyors, cut broccoli and place it on belts. Broccoli is carried to bushel baskets on machine platform, where over 100 bu. can be stacked.

On spinach, turnip greens, mustard, kale, collards, peas and lima beans, one man can cut and load, capacity 100 tons per day. New, improved cutter bar on PORTER-WAY HARVESTER is flexible; cuts close to ground.

**PORTER-WAY HARVESTER MANUFACTURING COMPANY**
WATERLOO, N. Y.



PEAS

TURNIP GREENS

SPINACH

**DETROIT DARK RED BEET KEEPS RICH COLOR IN PROCESSING**

**Unsurpassed in quality** for all packs, Détroit Dark Red has been the leading variety for canning since its original introduction by Ferry-Morse. Both F-M strains—Ferry's and Morse's—have uniformly smooth, round roots that are firm and fine-grained in texture; tap roots are refined. Ask us which strain is best for your needs.

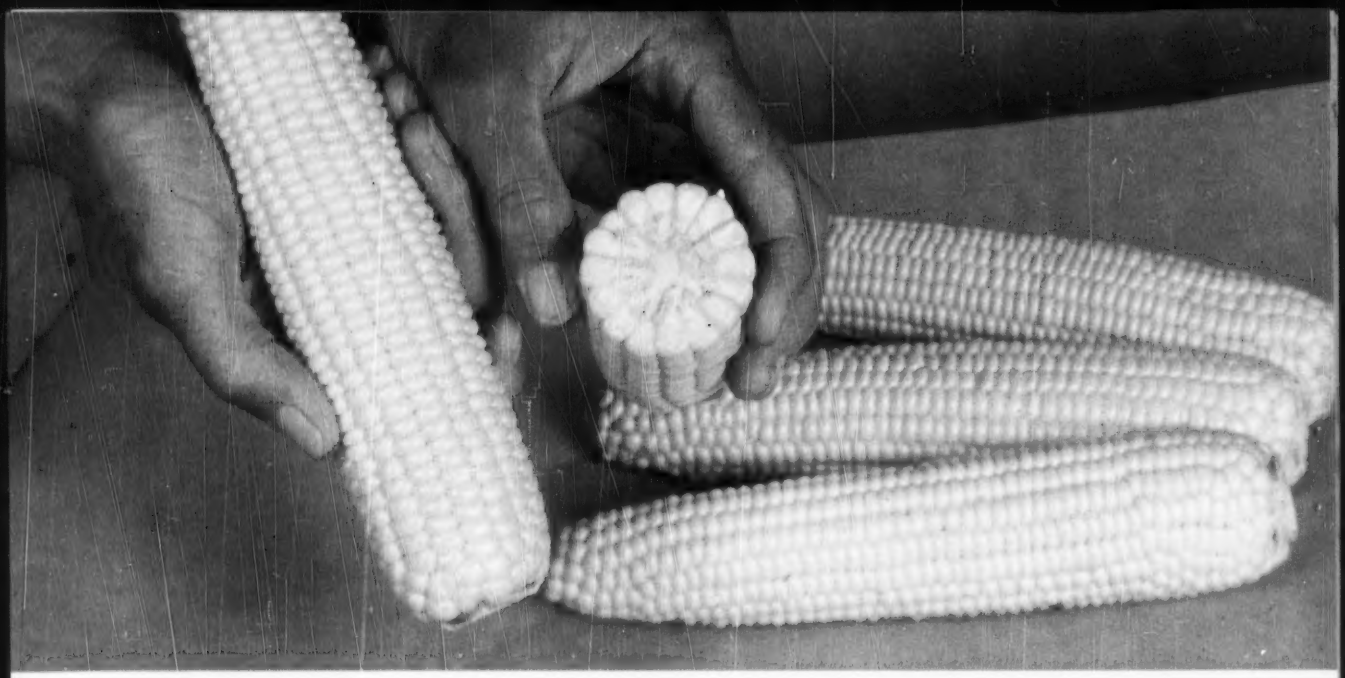
# Tailor-made for you by FERRY MORSE

LET THE GOOD EARTH PRODUCE

FERRY-MORSE SEED CO.—Detroit, Mich. • Mountain View and Los Angeles, Calif. • Memphis, Tenn. • Harlingen, Texas • Tampa, Fla.

**HOMESTEAD F-M 61 TOMATO BEARS UP TO FOUR QUALITY PICKINGS**

**This special strain** selected by Ferry-Morse breeders is more productive than regular Homestead. Compact, Fusarium Wilt resistant plants allow closer planting, produce heavy early fruit set, and, where adapted, continue to yield quality fruits through third and fourth pickings. Bright-red fruits are smooth, large and deep.



**F-M CROSS CORN PRODUCES HEAVY EARLY YIELD**

**This Ferry-Morse introduction** has proved outstanding for canning, freezing, and fresh market. Wilt Resistant plants produce heavy, concentrated, early yield. Ears are 8″ to 8½″ long, with 14 to 16 rows of deep, narrow, tender kernels—rich light-gold in color. High recovery percentage; high sugar. Seeds packed in 50-pound rodent-repellent bags.

# Tailor-made for you by FERRY MORSE

LET THE GOOD EARTH PRODUCE

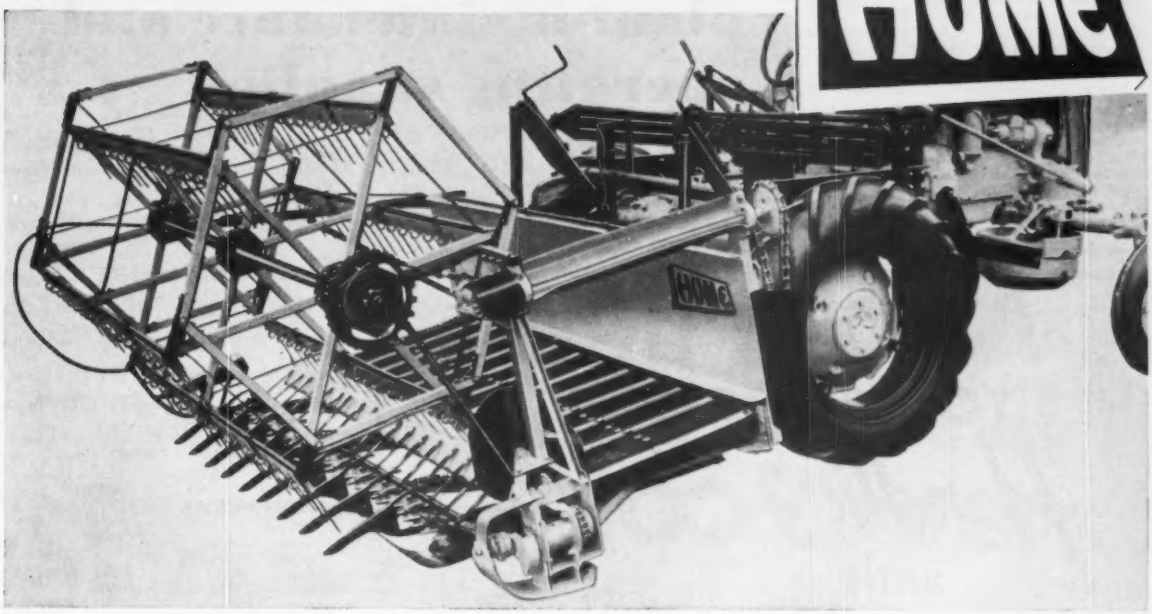
FERRY-MORSE SEED CO.—Detroit, Mich. • Mountain View and Los Angeles, Calif. • Memphis, Tenn. • Harlingen, Texas • Tampa, Fla.

**BLUE LAKE STRINGLESS FM-1P BEAN IS STRINGLESS AT ALL STAGES**

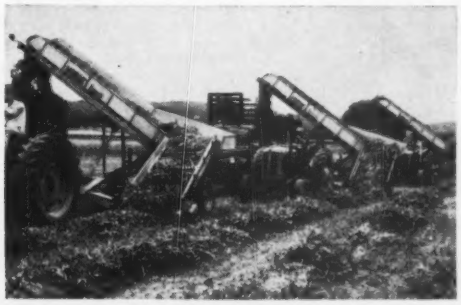
**Specially developed** by Ferry-Morse breeders to suit critical canning and freezing needs, this robust pole variety produces heavy yields of straight, stringless pods 5¼″ to 5¾″ long, with thick, uniformly green flesh. Earlier maturing than Stringless FM-1 . . . and highly resistant to Common Bean Mosaic.

# HUMETHOD IS EVEN BETTER WITH IMPORTANT GM-58 IMPROVEMENTS

HUME



The model "GM-58" Tractorrower and the model "M" loader provide you with the "perfect" green pea harvesting team — a team designed to harvest the crop under severe weather and field conditions. They handle the crop at the time "you pick" and with gentle care — get the job done when other methods fail.



Used as a companion machine to the Hume Tractorrower, the model "M" loader builds a loose, fluffy load that is easy to feed at the viner. And, of course, loose vines can mean less damaged peas, greater viner capacity and threshing efficiency.

**PROVEN DEPENDABILITY,** the watchword of the two-stage HUMETHOD of green pea harvesting, has been given added meaning with the important improvements found on the GM-58 Tractorrower. This machine is the culmination of twenty years' Hume experience in the design of successful pea harvesting equipment.

## NEW FEATURES ON THE GM-58

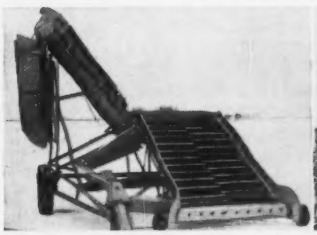
- Redesigned header balance system increases cutter bar's sensitivity to varying ground conditions — has two simple field adjustments which the operator can make as cutting conditions change.
- Screw-operated bell-crank which adjusts all four cutter bar shoes at once.
- Simplified drive system.
- Anti-trash header channel.
- New subframe for easier tractor attachment.

**Model "S" Tractorrower available for extra heavy-duty operation.**

*Write today for full information on Hume Specialized Harvesting Equipment designed especially for the Food Processing Industry.*

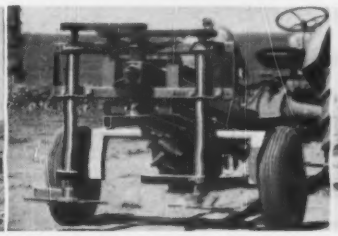
**H. D. HUME COMPANY** • *Mendota 1, Illinois*

**Hume Products Corporation**
**Mechanicsburg, Penna., Beaver Dam, Wis.**



**"MF-68" LOADER** features wide pickup, folding elevator.

**"79C" CUTLODE** for spinach, peas — sturdy yet lightweight, big capacity, easy to transport.



**"T" LIMA BEAN CUTTER,** used with "A" loader provides "cut and load" in one operation.

**"A" LOADER,** elevator folds for compact field-to-field transport.

## Section C

### Field Equipment

Huntington Laboratories, Inc., Huntington, Ind.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Thompson Chemicals Corp., 3600 Monon St., Los Angeles 27, Calif.
Union Carbide Corp., Union Carbide Chemicals Company, Div., 30 East 42nd St., New York 17, N. Y.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.

### 23. WOOD PRESERVATIVES (For Field Boxes, Hampers, etc.)

Protection Products Mfg. Co., 2305 Superior Ave., Kalamazoo, Mich.
Scientific Oil Compounding Co., Inc., 1637 S. Kilbourn Ave., Chicago 23, Ill.
Thompson Chemicals Corp., 3600 Monon St., Los Angeles 27, Calif.
Wilbur & Williams Co., The, 130 Lincoln St., Brighton (Boston) 35, Mass.

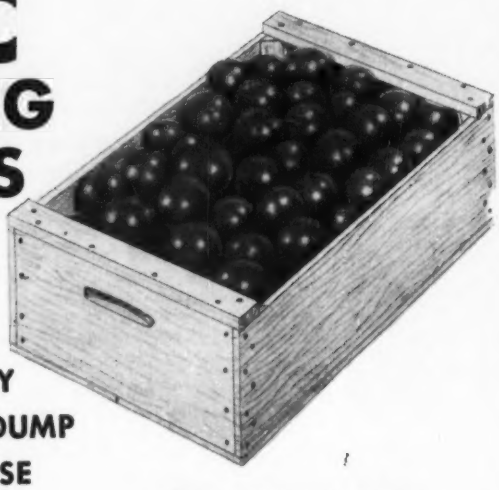
## SECTION D

# plant maintenance and operating supplies

### 1. APRONS – Work

Adair, Robin W., Co., Inc., Box 248, Avoca, N. Y.
American Alcolac Corp., 3440 Fairfield Rd., Baltimore 26, Md.
Associated Bag & Apron Co., 2650 W. Belden Ave., Chicago 47, Ill.
Sparta Brush Co., Inc., 402 South Black River St., Sparta, Wisc.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.


ASK US HOW
YOU CAN REDUCE
Handling COSTS
WITH
ABC
PICKING
BOXES
that



- PALLETIZE
- STACK EVENLY
- AUTOMATIC DUMP
- REDUCE BRUISE DAMAGE
- HAVE LONG LIFE
- SAVE SPACE

ABC's vast forest, sawmill and factory facilities assure immediate service.

We will gladly send information on the use of wooden picking boxes in mass production and automation handling methods.

American Box Corporation
2740 HYDE ST. SAN FRANCISCO 19, CALIF.


### 2. ANTI-FOAM AGENTS

Bemis Bros. Bag Co., 408 Pine St., Box 112, St. Louis 2, Mo.
Dow Corning Corp., P. O. Box 592, Midland, Mich.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich, B. F., Industrial Products Co., Akron 18, Ohio
Hodag Chemical Corp., 7247 No. Central Park Ave., Chicago 45, Ill.

### 3. BACTERICIDES

American Alcolac Corp., 3440 Fairfield Rd., Baltimore 26, Md.
Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Scientific Oil Compounding Company, Inc., Cunilate Division, 1637 S. Kilbourn Ave., Chicago 23, Ill.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.
Wallace & Tiernan, Inc., 25 Main St., Belleville 9, N. J.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.
Wyandotte Chemicals Corp., Dept. 92 Wyandotte, Mich.

### 4. BATTERIES – Storage

United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 5. BOOTS – Rubber

United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 6. BRUSHES – Industrial Cleaning

Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Sparta Brush Co., Inc., 402 South Black River St., Sparta, Wisc.

### 7. BRUSHES – Pipe & Tube

Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Sparta Brush Co., Inc., 402 South Black River St., Sparta, Wisc.

### 8. BRUSHES – Utensil Cleaning

Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Sparta Brush Co., Inc., 402 South Black River St., Sparta, Wisc.

### 9. CASTERS & WHEELS

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Fairbanks Company, The, 393 Lafayette St., New York 3, N. Y.
Nutting Truck and Caster Co., 1201 W. Division St., Faribault, Minn.
Rapids-Standard Company, Inc., The, Rapistan Building, Grand Rapids 2, Mich.

### 10. CEMENT – Acid & Alkali Proof

Adhesives Products Corp., 1662 Boone Ave., New York 60, N. Y.
Atlas Mineral Products Company, Mertztown, Pa.
Goodrich, B. F., Industrial Products Co., Akron 18, Ohio
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Miracle Adhesives Corp., 250 Pettit Ave., Bellmore, Long Island, N. Y.
Nukem Products Corp., 110 Colgate Ave. Buffalo 20, N. Y.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Stonhard Co., Inc., 1306 Spring Garden St., Dept. FP, Philadelphia 23, Pa.
United States Stoneware Co., The, Tallmadge Circle, Akron 9, Ohio

### 11. COMPOUNDS – Anti-Rust

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Homestead Valve Mfg. Co., P. O. Box 348, Caraopolis, Pa.
Houghton, E. F. & Co., 305 LeHigh Ave., Philadelphia 33, Pa.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Stonhard Co., Inc., 1306 Spring Garden St., Dept. FP, Philadelphia 23, Pa.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.

### 12. COMPOUNDS – Container Washing

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Brooks Chemicals, Inc. 3304 E. 87th St., Cleveland 27, Ohio
Clayton Mfg. Co., P. O. Box 550, El Monte, Calif.
Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Homestead Valve Mfg. Co., P. O. Box 348, Caraopolis, Pa.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Pennsalt Chemicals Corp., 3 Penn Center, Phildelphia 2, Pa.
Wyandotte Chemicals Corp., Dept. 92, Wyandotte, Mich.

### 13. COMPOUNDS – Germicidal

Brooks Chemicals, Inc. 3304 E. 87th St., Cleveland 27, Ohio
Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 16, Minn.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Scientific Oil Compounding Company, Inc., Cunilate Division, 1637 S. Kilbourn Ave., Chicago 23, Ill.
Union Carbide Corp., Union Carbide 42nd St., New York 17, N. Y.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.
Wyandotte Chemicals Corp., Dept. 92, Wyandotte, Mich.

### 14. COMPOUNDS – Hand Cleaning

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.

## Section D

### Plant Maintenance

Amaza Laboratories, Inc., 8115 S. Bedford Rd., Macedonia, Ohio
Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.


HAMACHEK

*Brings You Everything*

IN PEA AND LIMA BEAN HULLING EQUIPMENT For Canning-Freezing Operations

**This complete outstanding line includes:**

Viners; Pre-Grade Viners; Ideal and White Style Feeders for vine feeding; Key Equipment Co. Vine Feed Regulators (Chinamen) and Hoists; Jarrell Feeders for feeding vines; Belt Style Feeders for tandem threshing or feeding pods; Viner Power Plants; Rotary Dirt Removers for lima beans; Ensilage Distributors; Steel Viner Sheds; Galvanized Field Boxes for shelled peas; Fibre Glass Hopper Trucks and Tote Bins; and Generator Plants for electric lights at viner stations.

Frank HAMACHEK MACHINE COMPANY

Consultation On Your Hulling Problems Is Invited

**Established 1880** **Kewaunee, Wisconsin**

PEA AND BEAN HULLING SPECIALISTS

# Section D

## Plant Maintenance

West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.
Wyandotte Chemicals Corp., Dept. 92, Wyandotte, Mich.

### 15. COMPOUNDS – Plant Cleaning

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Clayton Mfg. Co., P. O. Box 550, El Monte, Calif.
Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Homestead Valve Mfg. Co., P. O. Box 348, Coraopolis, Pa.
Houghton, E. F. & Co., 305 LeHigh Ave., Philadelphia 33, Pa.
Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 16, Minn.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Stonhard Co., Inc., 1306 Spring Garden St., Dept. FP, Philadelphia 23, Pa.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.
Wyandotte Chemicals Corp., Dept. 92, Wyandotte, Mich.

### 16. COMPOUNDS – Scale Removal

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Wyandotte Chemicals Corp., Wyandotte, Mich.

### 17. CONVEYOR BELT FASTENERS

Clipper Belt Lacer Co., 976 Front Ave., N.W., Grand Rapids 2, Mich.
Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill.

### 18. CONVEYORS & ELEVATORS – Portable

American Machinery Corp., P. O. Box 3228, Orlando, Florida
American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 20, Pa.
Barrett-Cravens Co., 630 Dundee Road, Northbrook, Ill.
Buschman, E. W., Company, The, 4493 Clifton Ave., Cincinnati 32, Ohio
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Food Machinery and Chemical Corp., Stokes and Smith Co., 4952 Summerdale Ave., Philadelphia 24, Pa.
Island Equipment Corp., 27-01 Bridge Plaza, North, Long Island City 1, N. Y.
Lamson Corp., Lamson St., Syracuse 1, N. Y.
Link-Belt Co., Dept. FPGL-58, Prudential Plaza, Chicago 1, Ill.
Metzgar Conveyor Co., 414 Douglas, N.W., Grand Rapids 4, Mich.
M-H Standard Corp., 510 Communipaw Ave., Jersey City 4, N. J.
Mojonnier Bros. Co., 4601 West Ohio St., Chicago 44, Ill.
Rapids-Standard Company, Inc., The, Rapistan Building, Grand Rapids 2, Mich.
Speedways Conveyors, Inc., 144 Speedways Bldg., Buffalo 13, N. Y.
Standard Conveyor Co., 1114-N. W. Second, North St. Paul 9, Minn.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.

### 19. CONVEYORS – Other Types

Albertoli, John, 418 Beach St., San Francisco, Calif.
American Machinery Corp., P. O. Box 3228, Orlando, Florida
Buschman, E. W., Compny, The, 4493 Clifton Ave., Cincinnati 32, Ohio
Chain Belt Co., 4701 W. Greenfield Ave., Milwaukee 1, Wisc.
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Emhart Manufacturing Co., 333 Homestead Ave., Hartford 2, Conn.
Eriez Mfg. Co., 253 Magnet Drive, Erie, Pa.
Food Machinery and Chemical Corp., Stoakes and Smith Co., 4952 Summerdale Ave., Philadelphia 24, Pa.
Island Equipment Corp., 27-01 Bridge Plaza, North, Long Island City 1, N. Y.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Lamson Corp., Lamson St., Syracuse 1, N. Y.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Metzgar Conveyor Co., 414 Douglas, N.W., Grand Rapids 4, Mich.
M-H Standard Corp., 516-518 Communipaw Ave., Jersey City 4, N. J.
Mojonnier Bros. Co., 4601 West Ohio
Rapids-Standard Co., Inc., Rapistan Bldg., Grand Rapids 2, Mich.
St., Chicago 44, Ill.
Sandvik Steel, Inc., 1702 Nevins Rd., Fair Lawn, N. J.
Speedways Conveyors, Inc., 144 Speedways Bldg., Buffalo 13, N. Y.
Standard Conveyor Co., 1114-N. W. Second, North St. Paul 9, Minn.

### 20. DIESEL ENGINES

Caterpillar Tractor Co., Dept FP, Peoria, Ill.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.

### 21. DEODORIZERS

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Wallace & Tiernan, Inc., 25 Main St., Belleville 9, N. J.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.

### 22. DETERGENTS

Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Multi-Clean Products, Inc., 2277 Ford Parkway, Saint Paul 16, Minn.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.
Wyandotte Chemicals Corp., Dept. 92, Wyandotte, Mich.

### 23. DISINFECTANTS

American Alcolac 3440 Fairfield Rd., Baltimore 26, Md.
Hercules Powder Company, 900 Market St., Wilmington 99, Del.
Huntington Laboratories, Inc., Huntington, Ind.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Multi-Clean Products, Inc., 2277 Ford Parkway, Saint Paul 16, Minn.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Olin Mathieson Chemical Corp., Mathieson Building, Baltimore 3, Md.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.
Wyandotte Chemicals Corp., Dept. 92, Wyandotte, Mich.

### 24. DOLLIES

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Fairbanks Company, The, 393 Lafayette St., New York 3, N. Y.
Magline, Inc., 110 Cherry St., Pinconning, Mich.
Nutting Truck and Caster Co., 1201 W. Division St., Faribault, Minn.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.

### 25. DUST COLLECTORS

Wheelabrator Corp., Brykit St., Mishawaka, Ind.

### 26. FANS & BLOWERS

Bahnson Company, The, 1060 So. Marshall St., Winston-Salem, N. C.
Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Buffalo Forge Co., 490 Broadway, Buf-Buffalo 5, N. Y.
Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Hauck Mfg. Co., 150-160 Tenth St., Brooklyn 15, N. Y.
Hild Floor Machine Co., Inc., Dept. FP, 1217 W. Washington, Chicago 7, Ill.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Multi-Clean Products, Inc., 2277 Ford Parkway, Saint Paul 16, Minn.
Reynolds Electric Company, 3000 River Road, Dept. FP, River Grove, Ill.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio
U. S. Hoffman Machinery Corp., 103 Fourth Ave., New York 3, N. Y.

### 27. FLOOR MACHINES

Hild Floor Machine Co., 1217 W. Washington Blvd., Chicago 17, Ill.

Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 16, Minn.

### 28. FLOOR MATS

Goodrich, B. F., Industrial Products Co., Akron 18, Ohio
Huntington Laboratories, Inc., Huntington, Ind.
Stonhard Co., Inc., 1306 Spring Garden St., Dept. FP, Philadelphia 23, Pa.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
United States Steel Corp., Amer. Steel & Wire Div., Cyclone Fence Dept., P. O. Box 260, F.P., Waukegan 1, Ill.

### 29. FLOOR RESURFACING MATERIAL

Acme Steel Co., 135th & Perry, Chicago 27, Ill.
Armstrong Cork Company, West Liberty St., Lancaster, Pa.
Atlas Mineral Products Company, Mertztown, Pa.
Carboline Company, 32 Hanley Industrial Court, St. Louis 17, Mo.
Fulton Asphalt Co., 226 N. LaSalle St., Chicago 1, Ill.
Hild Floor Machine Co., 1217 W. Washington Blvd., Chicago 17, Ill.
Steelcote Manufacturing Company, 3418 Gratiot St., St. Louis 3, Mo.
Stonhard Company, Inc., 1306 Spring Garden St., Philadelphia 23, Pa.
Tufcrete Co., Inc., 502 E. Locust St., Des Moines 9, Ia.

### 29A. FLY KILLERS

Defjen Corp., Pleasant Valley, N.Y.

**ELECTROCUTING FLY SCREENS**
*for controlling houseflies.*
**INSECTOCUTOR LANTERNS**
for controlling night insects
**DETJEN CORPORATION**
Electrocuting Fly Screen Div.
Mercury 5-2850 PLEASANT VALLEY, N. Y.

### 30. FUMIGANTS

Huntington Laboratories, Inc., Huntington, Ind.
Stainless Products Corp., 314 Reed St., Belding, Mich.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.

### 31. GLOVES – Work

Adair, Robin W., Co., Inc., Box 248, Avoca, N. Y.
Armstrong Cork Company, West Liberty St., Lancaster, Pa.

### 32. HOISTS – Electric

Armstrong Cork Company, West Liberty St., Lancaster, Pa.
Ballymore Co., Lincoln & Garfield Aves., West Chester, Pa.
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Duff-Norton Co., Coffing Hoist Div., 800 Walter St., Danville, Ill.
Electric Products Company, The, 1725 Clarkstone Rd., Cleveland 12, O.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio
Yale & Towne Mfg. Co., The, 11,000 Roosevelt Blvd., Philadelphia 15, Pa.

### 33. HUMIDIFIERS

Armonstrong Machine Works, 973 Maple St., Three Rivers, Mich.
Bahnson Company, The, Marshall St., Winston-Salem, N. C.
Buffalo Forge Co., 490 Broadway, Buf-Buffalo 5, N. Y.

### 34. HUMIDITY CONTROLS

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Foxboro Company, The, Foxboro, Mass.
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 35. INSULATION – Pipe & Boiler

Armstrong Cork Company, West Liberty St., Lancaster, Pa.
Johns-Manville, 22 East 40th St., New York 16, N. Y.
Miracle Adhesives Corp., 250 Pettit Ave., Bellmore, L. I., N. Y.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.

### 36. INTERCOMMUNICATION SYSTEMS

Automatic Electric Co., Northlake, Ill.
Lamson Corp., Lamson St., Syracuse 1, N. Y.
Talk-A-Phone Co., 1512 S. Pulaski Rd., Chicago 23, Ill.

### 37. LIFT TRUCKS

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Barrett-Cravens Co., 630 Dundee Road, Northbrook, Ill.
Clark Equipment Co., Industrial Truck Div., Battle Creek 137, Battle Creek, Mich.
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Elwell-Parker Electric Co., 4275 St. Clair Ave., Cleveland 3, Ohio
Hyster Co., 2924 N.E. Clackamas St., Portland 8, Ore.
Lamson Corp., Lamson St., Syracuse 1, N. Y.
Mercury Mfg. Co., 4700 W. Division St., Chicago, Ill.
Moto-Truc Co., The, 1953 E. 59th St., Cleveland 3, Ohio
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.
Yale & Towne Mfg. Co., The, 11,000 Roosevelt Blvd., Philadelphia 15, Pa.

### 38. LUBRICANTS (Greases)

Dow Corning Corp., P. O. Box 592, Midland, Mich.
Famous Lubricants, Inc., 124-132 W. 47th Street, Chicago 9, Ill.
Houghton, E. F. & Co., 305 LeHigh Ave., Philadelphia 33, Pa.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.

### 39. MOISTURE CONTENT INDICATORS

Barber-Colman Co., 1700 Rock St., Rockford, Ill.
Ohaus Scale Corp., 1050 Commerce Ave., Union, N. J.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 40. ODOR CONTROL EQUIPMENT

Atlantic Ultraviolet Co., 24-10 40th Ave., Long Island City 1, N. Y.
Rhodia, Inc., Alamask Div., 60 E. 56th St., New York, N.Y.

# Section D

## Plant Maintenance

### 41. OFFICE MACHINES & SYSTEMS

Addressograph-Multigraph Corp., 1200 Babbitt Road, Cleveland 17, Ohio
Armstrong Cork Company, West Liberty St., Lancaster, Pa.

### 41A. OILS–Lubrication

General Gas Light Co., Humphrey Products Div., 212 N. Park St., Kalamazoo, Mich.
Dow Corning Corp., Midland, Mich.
Famous Lubricants, Inc., 124-132 W. 47th St., Chicago 9, Ill.

### 42. PAINT

Famous Lubricants, Inc., 124-132 W. 47th Street, Chicago 9, Ill.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Rust-Oleum Corp., 2425 Oakton St., Evanston, Ill.

### 43. PAINT – Acid & Alkali Proof

Adhesives Products Corp., 1662 Boone Ave., New York 60, N. Y.
American Marietta Co., Valdura Division, 101 E. Ontario St., Chicago 11, Ill.
Atlas Mineral Products Company, Mertztown, Pa.
Carboline Company, 32 Hanley Industrial Court, St. Louis 17, Mo.
Goodrich, B. F., Industrial Products Co., Akron 18, Ohio
Kirby, Geo., Jr., Paint Co., 14 Wall St., New Bedford, Mass.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Rust-Oleum Corp., 2425 Oakton St., Evanston, Ill.
Steelcote Manufacturing Company, 3418 Gratiot St., St. Louis 3, Mo.
Stonhard Company, Inc., 1306 Spring Garden St., Philadelphia 23, Pa.
Tropical Paint Company, Cleveland 2, Ohio
United States Stoneware Co., The, Tallmadge Circle, Akron 9, Ohio
Wilbur & Williams Co., The, 130 Lincoln St., Brighton (Boston) 35, Mass.

### 44. PAINT – Aluminum

Adhesives Products Corp., 1662 Boone Ave., New York 60, N. Y.
American Marietta Co., Valdura Division, 101 E. Ontario St., Chicago 11, Ill.
Carboline Company, 32 Hanley Industrial Court, St. Louis 17, Mo.
Huntington Laboratories, Inc., Huntington, Ind.
Fulton Asphalt Co., 226 N. LaSalle St., Chicago 1, Ill.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Rust-Oleum Corp., 2425 Oakton St., Evanston, Ill.
Steelcote Manufacturing Company, 3418 Gratiot St., St. Louis 3, Mo.
Tropical Paint Company, Cleveland 2, Ohio
Tufcrete Co., Inc., 502 E. Locust St., Des Moines 9, Ia.
United States Stoneware Co., The, Tallmadge Circle, Akron 9, Ohio
Wilbur & Williams Co., The, 130 Lincoln St., Brighton (Boston) 35, Mass.

# Section D

## Plant Maintenance

### 45. PAINT – Corrosion Resistant

Adhesives Products Corp., 1662 Boone Ave., New York 60, N. Y.
American Marietta Co., Valdura Division, 101 E. Ontario St., Chicago 11, Ill.
Atlas Mineral Products Company, Mertztown, Pa.
Carboline Company, 32 Hanley Industrial Court, St. Louis 17, Mo.
Fulton Asphalt Co., 226 N. LaSalle St., Chicago 1, Ill.
Kirby, Geo., Jr., Paint Co., 14 Wall St., New Bedford, Mass.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.
Miracle Adhesives Corp., 250 Pettit Ave., Bellmore, L. I., N. Y.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Rust-Oleum Corp., 2425 Oakton St., Evanston, Ill.
Steelcote Manufacturing Company, 3418 Gratiot St., St. Louis 3, Mo.
Stonhard Company, Inc., 1306 Spring Garden St., Philadelphia 23, Pa.
Tropical Paint Company, Cleveland 2, Ohio
United States Stoneware Co., The, Tallmadge Circle, Akron 9, Ohio
Wilbur & Williams Co., The, 130 Lincoln St., Brighton (Boston) 35, Mass. 2460, West Bend, Wisc.

### 46. PAINT – Germicidal & Preservative

American Marietta Co., Valdura Division, 101 E. Ontario St., Chicago 11, Ill.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Scientific Oil Compounding Company, Inc., Cunilate Division, 1637 S. Kilbourn Ave., Chicago 23, Ill.
Steelcote Manufacturing Company, 3418 Gratiot St., St. Louis 3, Mo.
Stonhard Co., Inc., 1306 Spring Garden St., Dept. FP, Philadelphia 23, Pa.

### 46A. PALLETS–Metal

Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio

### 47. PLATFORMS – Lift

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Ballymore Co., Lincoln & Garfield Aves., West Chester, Pa.
Barrett-Cravens Co., 630 Dundee Road, Northbrook, Ill.
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Hyster Co., 2924 N.E. Clackamas St., Portland 8, Ore.
Louisville Metal Products Co., 1101 W. Oak St., Louisville 10, Ky.
Moto-Truf Co., The, 1953 E. 59th St., Cleveland 3, Ohio
Pettibone Mulliken Corp., Mercury Mfg. Co. Sub., 4710 W. Division, Chicago 51, Ill.
West Bend Equipment Corp., P. O. Box 2460 West Bend, Wisc.

### 48. PUMPS – Deep Well

Goulds Pumps, Inc., 240 Fall St., Seneca Falls, N. Y.
New York Air Brake Co., Aurora Pump Div., 113 Loucks St., Aurora, Ill.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio

### 49. SAFETY CLOTHING

United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Wilson Products Co., 247 Washington St., Reading, Pa.

### 50. SAFETY DEVICES – Goggles, etc.

Colson Corp., The, Airport Rd., Jonesboro, Arkansas
Morton Salt Company, 120 So. LaSalle St., Chicago 3, Ill.
Ray-O-Vac Co., Willson Products Div., 247 Washington St., Reading, Pa.

### 51. SCALES – Track & Truck

Howe Scale Co., The, 213 Strongs Ave., Rutland, Vt.
Toledo Scale Corp., Toledo Scale Div. Toledo 12, Ohio

### 52. SKIDS

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Fairbanks Co., The, 395 Lafayette St., New York 3, N. Y.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.

### 53. SOAPS & SOAP POWDERS

Diversey Corporation, The, 1820 W. Roscoe St., Chicago 13, Ill.
Huntington Laboratories, Inc., Huntington, Ind.
Magnus Chemical Co., Inc., 74 South Avenue, Garwood, N. J.

### 54. SPONGES

du Pont, E. I., de Nemours & Co., Inc., Film Dept., Wilmington 98, Del.
Huntington Laboratories, Inc., Huntington, Ind.
Sparta Brush Co., Inc., 402 South Black River St., Sparta, Wisc.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.

### 55. SPRAY GUNS

Food Machinery & Chemical Corp., John Bean Division, P. O. Box 840, Lansing 4, Mich.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.

### 56. STACKERS – Case

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Pettibone Mulliken Corp., Mercury Mfg. Co. Sub., 4710 W. Division, Chicago 51, Ill.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.

### 57. STEAM CLEANING EQUIPMENT

Halkirk Co., P. O. Box 612 F, Manhattan Beach, Calif.
Homestead Valve Mfg. Co., P. O. Box 348, Coraopolis, Pa.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Sellers Injector Corp., 1600 Hamilton St., Philadelphia 30, Pa.

### 58. TIRES, TRUCKS, TRAILERS – Industrial

Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Hyster Co., 2902 N. E. Clackamas St., Portland 8, Oregon
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Nutting Truck & Caster Co., 1201 W. Dursion St., Fairbault, Minn.
Yale & Towne Mfg. Co., 11,000 Roosevelt Blvd., Philadelphia 15, Pa.

### 59. TRAILERS – Platform

Colson Corp., The, 10 Cedar St., Elyria, Ohio
Dorsey Trailers, Inc., 401 Hickman, Elba, Ala.
Magline, Inc., 110 Cherry St., Pinconning, Mich.
Mercury Mfg. Co., 4700 W. Division St., Chicago, Ill.
Nutting Truck and Caster Co., 1201 W. Division St., Faribault, Minn.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.
Yale & Towne Mfg. Co., The, 11,000 Roosevelt Blvd., Philadelphia 15, Pa.

### 60. TRUCKS & TRAILERS

Boyertown Auto Body Works, Third & Walnut Sts., Boyertown, Pa.
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Dorsey Trailers, Inc., 401 Hickman, Elba, Ala.
Fairbanks Company, The, 393 Lafayette St., New York 3, N. Y.
Magline, Inc., 110 Cherry St., Pinconning, Mich.
Mercury Mfg. Co., 4700 W. Division St., Chicago, Ill.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.

### 61. TRUCKS – Drum & Barrel

American Pulley Company, The, 4200 Wissachickon Ave., Philadelphia 29, Pa.
Barrett-Cravens Co., 630 Dundee Road, Northbrook, Ill.
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Elwell-Parker Electric Co., 4275 St. Clair Ave., Cleveland 3, Ohio
Fairbanks Company, The, 393 Layfayette St., New York 3, N. Y.
Hyster Co., 2924 N.E. Clackamas St., Portland 8, Ore.
Magline, Inc., 110 Cherry St., Pinconning, Mich.
Moto-Truc Co., The, 1953 E. 59th St., Cleveland 3, Ohio
Nutting Truck and Caster Co., 1201 W. Division St., Faribault, Minn.
Pettibone Mulliken Corp., Mercury Mfg. Co. Sub., 4710 W. Division, Chicago 51, Ill.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.
Yale & Towne Mfg. Co., The, 11,000 Roosevelt Blvd., Philadelphia 15, Pa.

### 62. TRUCKS – Hand

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Automatic Transportation Co., 101 W. 87th St., Chicago 20, Ill.
Barrett-Cravens Co., 630 Dundee Road, Northbrook, Ill.
Buschman, E. W., Company, The, 4493 Clifton Ave., Cincinnati 32, Ohio
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Fairbanks Company, The, 393 Lafayette St., New York 3, N. Y.

Magline, Inc., 110 Cherry St., Pinconning, Mich.
Mercury Mfg. Co., 4700 W. Division St., Chicago, Ill.
Moto-Truc Co., The, 1953 E. 59th St., Cleveland 3, Ohio
Nutting Truck and Caster Co., 1201 W. Division St., Faribault, Minn.
Rapids-Standard Company, Inc., The, Rapistan Building, Grand Rapids 2, Mich.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.
Yale & Towne Mfg. Co., The, 11,000 Roosevelt Blvd., Philadelphia 15, Pa.

### 63. UNIFORMS – Work

American Pulley Company, The, 4200 Wissahickon Ave., Philadelphia 29, Pa.
Automatic Transportation Co., 101 W. 87th St., Chcago 20, Ill.
Barrett-Cravens Co., 630 Dundee Road, Northbrook, Ill.
Buschman, E. W., Company, The, 4493 Clifton Ave., Cincinnati 32, Ohio
Colson Corp., The, 10 Cedar St., Elyria, Ohio
Fairbanks Company, The, 393 Lafayette St., New York 3, N. Y.
Magline, Inc., 110 Cherry St., Pinconning, Mich.
Mercury Mfg. Co., 4700 W. Division St., Chicago, Ill.
Moto-Truc Co., The, 1953 E. 59th St., Cleveland 3, Ohio
Nutting Truck and Caster Co., 1201 W. Division St., Faribault, Minn.
Rapids-Standard Company, Inc., The, Rapistan Building, Grand Rapids 2, Mich.
West Bend Equipment Corp., P. O. Box 2460, West Bend, Wisc.
Yale & Towne Mfg. Co., The, 11,000 Roosevelt Blvd., Philadelphia 15, Pa.

### 64. VACUUM CLEANERS

Hild Floor Machine Co., 1217 W. Washington Blvd., Chicago 17, Ill.
Huntington Laboratories, Inc., Huntington, Ind.
Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 16, Minn.
Premier Company, 755 Woodlawn Ave., St. Paul 16, Minn.
U. S. Hoffman Machinery Corp., 103 Fourth Ave., New York 3, N. Y.

### 65. WASTE DISPOSAL SYSTEMS

Graver Water Conditioning Co., Dept. FP, 216 W. 14th St., New York 11, N. Y.
Green Bay Foundry & Machine Works, 401 So. Broadway, Green Bay, Wisc.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio
Wallace & Tiernan, Inc., 25 Main St., Belleville 9, N. J.
West Chemical Products, Inc., 42-16 West St., Long Island City 1, N. Y.

### 66. WASTE SCREENS

Green Bay Foundry & Machine Works, 401 So. Broadway, Green Bay, Wisc.
Jeffrey Mfg. Co., The, 906 N. 4th St., Columbus 16, Ohio

### 67. WATER CONDITIONING

Barnstead Still & Demineralize Co., 2 Langsville Terrace, Boston 31, Mass.
Cochrane Corp., 3150 No. 17th St., Philadelphia 32, Pa.
Elgin Softener Corp., 134 N. Grove Ave., Elgin. Ill.
Graver Water Conditioning Co., Dept. FP, 216 W. 14th St., New York 11, N. Y.
Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Wallace & Tiernan, Inc., 25 Main St., Belleville 9, N. J.

### 68. WATER SOFTENERS

Cochrane Corp., 3150 No. 17th St., Philadelphia 32, Pa.
Elgin Softener Corp., 134 N. Grove Ave., Elgin. Ill.
Graver Water Conditioning Co., Dept. FP, 216 W. 14th St., New York 11, N. Y.
Oakite Products, Inc., 44 Rector St., New York 6, N. Y.
Olin Mathieson Chemical Corp., Mathieson Building, Baltimore 3, Md.

### 69. WIPING CLOTHS

Huntington Laboratories, Inc., Huntington, Ind.

### 70. WOOD PRESERVATIVES (For Wooden Pallets, etc.)

Bemis Bros. Bag Co., 408 Pine St., Box 112, St. Louis 2, Mo.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Protection Products Mfg. Co., 2305 Superior Ave., Kalamazoo, Mich.
Scientific Oil Compounding Company, Inc., Cunilate Division, 1637 S. Kilbourn Ave., Chicago 23, Ill.
Steelcote Manufacturing Company, 3418 Gratiot St., St. Louis 3, Mo.
Stonhard Company, Inc., 1306 Spring Garden St., Philadelphia 23, Pa.

# SECTION E

# freezing equipment and supplies

### 1. ALARMS – Temperature Rise

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Bristol Company, The P. O. Box 1790, FPBG, Waterbury 20, Conn.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
United Electric Controls Co., 85 School St., Watertown 72, Mass.
York Corporation, York, Pa.

### 2. BLOWERS

Acme Industries, Inc., 601 N. Mechanic St., Jackson, Mich.
Buffalo Forge Co., 490 Broadway, Buf-Buffalo 5, N. Y.



Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Fuller Co., Catasauqua, Pa.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio
Tenney Engineering, Inc., 1090 Springfield Rd., Union, N. J.
Tranter Manufacturing, Inc., Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9, Mich.
U. S. Hoffman Machinery Corp., 103 Fourth Ave., New York 3, N. Y.

### 3. BRINE COOLING EQUIPMENT

Frick Company, Waynesboro, Pa.
Tranter Manufacturing, Inc., Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9, Mich.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.

### 4. CAR ICING EQUIPMENT

Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
York Corporation, York, Pa.

### 5. COIL & BAFFLE ASSEMBLIES

Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Frick Co., West Main St., Waynesboro, Pa.
Tenney Engineering, Inc., 1090 Springfield Rd., Union, N. J.
Tranter Mfg. Inc., 735 East Hazel, Lansing 9, Mich.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.

### 6. COLD STORAGE ROOM – Prefabricated

Master Freeze Corp., Dept. 575, Sister Bay, Wis.

### 7. COMPRESSORS – Ammonia

Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Freezing Equipment Sales, Inc., 1405 N. Duke St., York, Pa.
Frick Company, Waynesboro, Pa.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.
York Corporation, York, Pa.

### 8. COMPRESSORS – Booster

Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Freezing Equipment Sales, Inc., 1405 No. Duke St., York, Pa.
Frick Company, Waynesboro, Pa.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.
York Corporation, York, Pa.

### 9. CONDENSERS

Acme Industries, Inc., 601 N. Mechanic St., Jackson, Mich.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Frick Company, Waynesboro, Pa.

# Section E

## Freezing Equipment

Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
Worthington Corp., 401 Worthington Ave., Harrison, N. J.
York Corporation, York, Pa.

### 10. COOLERS

Acme Industries, Inc., 601 N. Mechanic St., Jackson, Mich.
APV Co., Inc., 137 Arthur, Buffalo 7, N. Y.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Frick Company, Waynesboro, Pa.
Greer, J. W., Company, Wilmington, Mass.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Master Freeze Corp., Dept. 575, Sister Bay, Wis.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.
Streator Products Corp., 408 No. Depot St., Fairfield, Ia.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
York Corporation, York, Pa.

### 11. COOLING TOWERS

Acme Industries, Inc., 601 N. Mechanic St., Jackson, Mich.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.

### 12. DEFROSTING CONTROLS

Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Frick Company, Waynesboro, Pa.

### 13. DIFFUSERS – Air

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Tenney Engineering, Inc., 1090 Springfield Rd., Union, N. J.

### 14. DOORS – Cold Storage

Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Jamison Cold Storage Door Co., Box 70, Hagerstown, Md.
Streator Products Corp., 408 No. Depot St., Fairfield, Ia.
United States Plywood Corp., 55 W. 44th St., New York 36, N. Y.

### 15. DRY ICE

Olin Mathieson Chemical Corp., Mathieson Building, Baltimore 3, Md.
Spencer Chemical Co., Dwight Bldg., Kansas City 5, Mo.

### 16. EVAPORATORS

Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Frick Company, Waynesboro, Pa.
Master Freeze Corp., Dept. 575, Sister Bay, Wis.
Tenney Engineering, Inc., 1090 Springfield Rd., Union, N. J.
Tranter Manufacturing, Inc., Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9, Mich.
Vilter Manufacturing Co., The, 2217 S First St., Milwaukee 7, Wis.
York Corporation, York, Pa.

### 17. EXPANSION VALVES

Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wis.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Frick Company, Waynesboro, Pa.
Phillips, H. A. & Co., 3255 W. Carroll, Chicago 24, Ill.
York Corporation, York, Pa.

### 18. FILTERS – Refrigerant

Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wis.
Newark Wire Cloth Company, 351 Verona Ave., Newark 4, N. J.
Phillips, H. A. & Co., 3255 W. Carroll, Chicago 24, Ill.
Sperry, D. R. Co., 19 FP State Road, North Aurora, Ill.
York Corporation, York, Pa.

### 19. FIN COILS

Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Frick Company, Waynesboro, Pa.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
York Corporation, York, Pa.

### 20. FITTINGS – Pipe

Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Fairbanks Company, The, 393 Lafayette St., New York 3, N. Y.
Frick Company, Waynesboro, Pa.
Phillips, H. A., & Co., 3255 W. Carroll, Chicago 24, Ill.
United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
York Corporation, York, Pa.

### 21. FREEZERS – Air Blast

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Freezing Equipment Sales, Inc., 1405 No. Duke St., York, Pa.
Frick Company, Waynesboro, Pa.
Frigid Freeze Co., 19 W 44th St., New York, N.Y.
King Co. of Owatonna, 902—10 N. Cedar Ave., Owatonna 1, Minn.
Master Freeze Corp., Dept. 575, Sister Bay, Wis.
Proctor & Schwartz, Inc., 7th St. & Tabor Rd., Philadelphia 20, Pa.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
York Corporation, York, Pa.

### 22. FREEZERS – Immersion

Barry—Wehmiller Machinery Company 4660 West Florissant Ave., St. Louis 15, Mo.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
York Corporation, York, Pa.

### 23. FREEZERS – Plate

Amerio Contact Plate Freezers, Inc., 128-44th St., Union City, N. J.
Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Frigid Freeze Co., 19 W 44th St., New York, N.Y.
Proctor & Schwartz, Inc., 7th St. & Tabor Road, Philadelphia 20, Pa.
Tranter Manufacturing, Inc., Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9, Mich.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
York Corporation, York, Pa.

### 24. FREEZERS – Slush

Girdler Co., The, Votator Division, 224 E. Broadway, Louisville 1, Ky.
York Corporation, York, Pa.

### 25. FREEZERS – Tunnel

American Machinery Corp., P. O. Box 3228, Orlando, Fla.
Freezing Equipment Sales, Inc., 1405 No. Duke St., York, Pa.
Frick Co., West Main St., Waynesboro, Pa.
Frigid Freeze Co., 19 W. 44th St., New York, N.Y.
King Co. of Owatonna, 902-10 N. Cedar Ave., Owatonna 1, Minn.
Master Freeze Corp., Dept. 575, Sister Bay, Wis.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
York Corporation, York, Pa.
Powers Regulator Co., The, 3400 Oakton St., Skokie 82, Ill.
York Corporation, York, Pa.

### 26. GAUGES

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Jerguson Gage & Valve Co., Adams St., Burlington, Mass.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
York Corporation, York, Pa.

### 27. HEAT EXCHANGES

Acme Industries, Inc., 601 N. Mechanic St., Jackson, Mich.
Chisholm-Ryder Company, Inc., Drawer F, Bridge Station, Niagara Falls, N. Y.
Corning Glass Works, Corning, N. Y.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Crucible Steel Company of America, H. W. Oliver Bldg., Mellon Square, Pittsburgh 22, Pa.
Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St , San Jose 8, Calif.
Frick Company, Waynesboro, Pa.
Lee Metal Products Co., Inc., 408 Pine St., Philipsburg, Pa.
Pfaudler Co., The, 1000 West Ave., Rochester 3, N. Y.
Pressed Steel Tank Co., 1466 South 66th St., Milwaukee 14, Wis.
Tranter Manufacturing, Inc., Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9,Mich.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
York Corporation, York, Pa.

### 28. HUMIDIFIERS

Armstrong Machine Works, 973 Maple St., Three Rivers, Mich.
Bahnson Company, The, Marshall St., Winston-Salem, N. C.
Powers Regulator Co., The, 3400 Oakton St., Skokie 82, Ill.
York Corporation, York, Pa.

### 29. HUMIDITY CONTROLS

Armstrong Machine Works, 973 Maple St., Three Rivers, Mich.
Bahnson Company, The, 1060 So. Marshall St., Winston-Salem, N. C.
Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Bristol Company, The, P. O. Box 1790, FPBG, Waterbury 20, Conn.
Foxboro Company, The, Foxboro, Mass
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 3400 Oakton Street, Skokie 35, Ill.
United Electric Controls Co., 85 School St., Watertown 72, Mass.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 30. HUMIDITY TESTERS

Bristol Company, The, P. O. Box 1790, FPBG, Waterbury 20, Conn.

Weston Electrical Inst Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

### 31. ICE CRUSHERS

Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Link-Belt Co., Dept. FPGL-58, Prudential Plaza, Chicago 1, Ill.
Miller, Franklin P. & Son, Inc., 30 Meadow St., East Orange, N. J.

### 32. INSULATION

Armstrong Cork Company, West Liberty St., Lancaster, Pa.
Johns-Manville, 22 East 40th St., New York 16, N. Y
Master Freeze Corp., Dept. 575, Sister Bay, Wis.
Miracle Adhesives Corp., 250 Pettit Ave; Bellmore, L. I., N. Y.

### 33. PRESSURE CONTROLS & GAUGES

Barber-Colman Co., 1700 Rock St., Rockford, Ill.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Fischer & Porter Company, 900 Warminster Road, Hatboro, Pa.
Foxboro Company, The, Foxboro, Mass.
Phillips, H. A., & Co., 3255 W. Carroll, Chicago 24, Ill.
United Electric Controls Co., 85 School St., Watertown 72, Mass.
Weston Electrical Inst. Corp, 614 Frelinghuysen Ave., Newark 12, N. J.

### 34. PUMPS – Refrigerant

Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Frick Company, Waynesboro, Pa.
Phillips, H. A. & Co., 3255 W. Carroll, Chicago 24, Ill.
York Corporation, York, Pa.

### 35. PURGERS – Refrigerant Air

Armonstrong Machine Works, 973 Maple St., Three Rivers, Mich.
Frick Company, Waynesboro, Pa
York Corporation, York, Pa.

### 36. REFRIGERANTS

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.

### 37. REFRIGERATORS – Truck

Dole Refrigerating Co., 5910 N. Pulaski Road, Chicago 30, Ill.
Hackney Bros. Body Co., P. O. Drawer 856, Wilson, N. C.
Thermo King Corp., 44 S. 12th, Minneapolis 3, Minn.
Tranter Manufacturing, Inc, Kold-Hold Div., Dept. FP, 735 E. Hazel St., Lansing 9, Mich.
York Corporation, York, Pa.

### 38. STRAINERS – Refrigerant

Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wis.
Frick Co., West Main St., Waynesboro, Pa.
Newark Wire Cloth Company, 351 Verona Ave., Newark 4, N. J.
Phillips, H. A. & Co., 3255 W Carroll, Chicago 24, Ill.
York Corporation, York, Pa.

### 39. TANKS – Pressure

Brighton Corp., Hamilton Kettle Div., 820 State Ave., Cincinnati 4, Ohio
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd., Chicago 7, Ill.
Frick Company, Waynesboro, Pa.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Pfaudler Co., The, 1000 West Ave, Rochester 3, N. Y.
Phillips, H. A. & Co., 3255 W. Carroll, Chicago 24, Ill.
York Corporation, York, Pa.
Pressed Steel Tank Co., 1445 S. 66th St., Milwaukee 14, Wisc.

### 40. TEMPERATURE CONTROLS

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wis.
Electronic Processes Corp. of Calif., 2190 Folsom St., Suite 314, San Francisco 10, Calif.
Fenwal, Incorporated, Pleasant Street, Ashland, Mass.
Foxboro Company, The, Foxboro, Mass
Jordan Corporation, 6013 Wiehe Road, Cincinnati 13, Ohio
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., The, 2300 Oakton Street, Skokie 35, Ill.
Robertshaw-Fulton Controls Company, The Instrument Division, 2920 North 4th St., Philadelphia 33, Pa.
United Electric Controls Co., 85 School St., Watertown 72, Mass.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave., Newark 12, N. J.

## Section F

### Packaging Equipment

### 41. VALVES & FITTINGS – Refrigerant

Barber-Colman Company, 1300 Rock St., Rockford, Ill.
Controls Company of America, 2450 No. 32nd St., Milwaukee 45, Wis.
Crane Co., 836 S. Michigan Ave., Chicago 5, Ill.
Creamery Package Mfg. Co., The, 1243 W. Washington Blvd, Chicago 7, Ill.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Frick Company, Waynesboro, Pa.
Fairbanks Co., The 395 Lafayette St., New York 3, N. Y.
General Gas Light Co., Humphrey Products Division, 202-226 N. Park St., Kalamazoo, Mich.
Homestead Valve Mfg. Co., P. O. Box 348, Caraopolis, Pa.
Phillips, H. A. & Co., 3255 W Carroll, Chicago 24, Ill.
Rockwell Mfg. Co., 400 N. Lexington Ave., Dept. 608, Pittsburgh 8, Pa.
Vilter Manufacturing Co., The, 2217 S. First St., Milwaukee 7, Wis.
York Corporation, York, Pa.

## SECTION F

# packaging equipment containers and supplies

### 1. ACCUMULATING TABLES

Barry-Wehmiller Machinery Company, 4660 West Florissant Ave., St. Louis 15, Mo.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Emhart Mfg Co., Standard-Knapp Div., Main Street, Portland, Conn.
MRM Co., Inc., 191 Berry St., Brooklyn 11, N.Y.
Geveke & Co., Inc., 25 Broadway, New York 4, N. Y.
Island Equipment Corp., 27-01 Bridge Plaza, North Long Island City 1, N. Y.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.

### 2. ADHESIVES

Adhesives Products Corp., 1662 Boone Ave., New York 60, N Y.
Arabol Mfg. Co., 110 E. 42nd St., New York 17, N. Y.
Armstrong Cork Company, West Liberty St., Lancaster, Pa.
Corn Belt Adhesives, 1017—4th St., Council Bluffs, Iowa
Diagraph-Bradley Industries, Inc., Dept FP, Box 269, Herrin, Ill.
Dow Corning Corp., Midland, Mich.
Durkee-Atwood Co., 215 N.E. 7th St., Minneapolis 13, Minn.
Findley, F. G., Co., 3033 W. Pemberton Ave., Milwaukee 45, Wis.
Johns-Manville, 22 East 40th St., New York 16, N Y.
Morningstar, Nicol, Inc., Paisley Products, Inc., Div., 630 W. 51st Street, New York 19, N. Y.
National Starch Products, Inc., 268 Madison Ave., New York 16, N. Y.
Swift and Co., Adhesive Products Dept., 4115 S. Packers Ave., Chicago 9, Ill.
Union Paste Co., 1605 Hyde Park Ave., Hyde Park 36, Mass.
United States Plywood Corp., 55 W. 44th St., New York 36, N. Y.

### 3. CAN CLOSING & SEALING MACHINES

American Can Company, 100 Park Avenue, New York 17, N. Y
Angelus Sanitary Can Machine Co., 4900 Pacific Blvd., Los Angeles 58, Calif.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Emhart Manufacturing Co., 333 Homestead Ave., Hartford 2, Conn.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Heekin Can Co., 429 New St., Cincinnati 2, Ohio
National Can Corp., 3217 W. 47th Place, Chicago, Ill.
Swanson, W. H., and Co., 1220 Washington Ave., Box 294, Wilmette, Ill.
Vermont Marble Co., Callahan Can Machine Co., Proctor, Vt.

### 4. CAN LID EMBOSSERS

American Can Company, 100 Park Avenue, New York 17, N. Y.
Matthews, Jas. H. & Co., 3809 Forbes St., Pittsburgh 13, Pa.

### 5. CAN MAKING MACHINERY

Angelus Sanitary Can Machine Co., 4900 Pacific Blvd., Los Angeles 58, Calif.
Bliss, E. W., Company, 1375 Raff Road, S. W., Canton 10, Ohio

# Section F

## Packaging Equipment

Callahan Can Machine Co., 55 W. 42nd St., Room 665, New York 17, N.Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Vermont Marble Co., Callahan Can Machine Co., Proctor, Vt.

### 6. CAN UNSCRAMBLERS, DUMPERS, UNLOADERS

A-B-C Packaging Machine Corp., P. O. Box 276, Tarpon Springs, Florida
Albertoli, John, 418 Beach St., San Francisco, Calif.
American Can Company, 100 Park Avenue, New York 17, N. Y.
Barnes, W. F. and John, Co., 301 S. Water St., Rockford, Ill.
Busse Brothers, Randolph, Wisc.
Canning Machinery Co., 5105 S.W. 45th Ave., Portland 1, Oregon
Dudley Machinery Corp., 2750 Scott Lane, P. O. Box 150, Santa Clara, Calif.
Emhart Manufacturing Co., 333 Homestead Ave., Hartford 2, Conn.
Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Island Equipment Corp., 27-01 Bridge Plaza, North Long Island City 1, N. Y.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
MRM Co., Inc., 191 Berry St., Brooklyn 11, N.Y.
Radio Corporation of America, Front & Cooper St., Bldg. 15-1, Camden 2, N. J.
Shuttleworth Machinery Corp., Box 8, Warren, Ind.

### 7. CAN WASHING MACHINES

Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.

### 8. CANS – Lithographed

American Can Company, 100 Park Avenue, New York 17, N. Y.
Clark, J. L. Mfg. Co., 2305 6th St., Rockford, Ill.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Heekin Can Co., 429 New St., Cincinnati 2, Ohio
National Can Corp., 3217 W. 47th Place, Chicago 32, Ill.
White Metal Mfg. Co., 1024 Grand St., Hoboken, N. J.

### 9. CANS – Metal

White Metal Mfg. Co., 1024 Grand St., Hoboken, N. J.
American Can Company, 100 Park Avenue, New York 17, N. Y.
Clark, J. L., Mfg. Co., 2305 6th St., Rockford, Ill
Continental Can Company, 100 East 43nd St., New York 17, N. Y.
Heekin Can Co., 429 New St., Cincinnati 2, Ohio
National Can Corp., 3217 W. 47th Place, Chicago 32, Ill.
White Metal Mfg. Co., 1024 Grand St., Hoboken, N. J.

### 10. CAPPING MACHINES

Aluminum Co. of America, 1501 Aloca Bldg., Pittsburgh 19, Pa.
Anchor Hocking Glass Corp., 80 Glass Avenue, Lancaster, Ohio
Canning Machinery Co., 5105 S.W. 45th Ave., Portland 1, Oregon
Eryle Co., 1539 Folsom St., San Francisco 3, Calif.
Pneumatic Scale Corp., Ltd., 65 Newport Ave., Quincy 71, Mass.
Swanson, W. H & Co., 1220 Washington Ave., Wilmette, Ill.
White Cap Co., Subsidiary, Continental Can Co., Inc., 1819 N. Major Ave., Chicago 39, Ill.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 11. CARTON FILLERS & LOADERS

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Burt Machine Company, 401-03 E. Oliver St., Baltimore 2, Md.
Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Ferguson, J. L., Company, Joliet, Ill.
Food Machinery & Chemical Corp, Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Lynch Corp., Anderson, Ind.
Weigh Right Automatic Scale Co., E. Mills Rd., Box 896, Joliet, Ill.

### 12. CARTON FORMING, FILLING & CLOSING MACHINES

Better Packages, Inc., Plant C, 251 Canal St., Shelton, Conn.
Container Equipment Corp., 78-88 Locust Ave., Bloomfield, N. J.
Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Ferguson, J. L., Company, Joliet, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Geveke & Co., Inc., 25 Broadway, New York 4, N. Y.
Lynch Corp., Anderson, Ind.
Old Dominion Box Co., 528 Turner Drive, Charlotte 1, N. C.
Package Machinery Co., Putnam Bldg., East Longmeadow, Mass.
Pneumatic Scale Corp., Ltd, 65 Newport Ave., Quincy 71, Mass.
Weigh Right Automatic Scale Co., East Mills Road, P.O. Box 896, Joliet, Ill.

### 13. CARTON IMPRINTERS

Addressograph-Multigraph Corp., 1200 Babbitt Road, Cleveland 17, Ohio
Adolph Gottscho, Inc., Dept. FP, Hillside 5, N.J.
Diagraph-Bradley Industries, Inc., Dept. FP, Box 269, Herrin, Ill.
Emhart Mfg. Co., Standard-Knapp Div., Main Street, Portland, Conn.
Ferguson, J. L., Company, Joliet, Ill.
Industrial Marking Equipment Co., Inc., 454 Baltic St., Brooklyn 17, N. Y.
Matthews, Jas. H. & Co, 3809 Forbes St., Pittsburgh 13, Pa.
Weber Addressing Machine Co., Inc., Weber Marking Systems Div., 215 E. Prospect Ave., Mount Prospect, Ill.

### 14. CARTONS – Folding

Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
Container Corp. of America, 38 So. Dearborn St., Chicago 3, Ill.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Cornell Paperboard Products Co, 1514 E. Thomas Ave., Milwaukee 1, Wis.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Crown Zellerbach Corp., Gaylord Container Corp. Div., 111 N. Fourth St., St. Louis 2, Mo.
Fibreboard Paper Products Corp., 475 Brannan St., San Francisco 19, Calif.
Hinde & Dauch, 407 Decatur St., Sandusky, Ohio
Marathon Corp, Menasha, Wis.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Old Dominion Box Co., 528 Turner Drive, Charlotte 1, N. C.
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
Stone Container Corp., 4200 W. 42nd Place, Chicago 32, Ill.
U. S. Printing & Lithograph Company, The, 354 Beech St., Cincinnati 12, Ohio

### 15. CARTONS – Laminated

Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill
Container Corp. of America, 38 So. Dearborn St., Chicago 3, Ill.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Cornell Paperboard Products Co., 1514 E. Thomas Ave., Milwaukee 1, Wis.
Fibreboard Paper Products Corp., 475 Brannan St., San Francisco 19, Calif.
Marathon Corp., Menasha, Wis.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
Rossotti Lithograph Corp., 8511A Tonnelle Ave., North Bergen, N. J.

### 16. CARTONS – Waxed & Paraffined

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Container Corp. of America, 38 So. Dearborn St., Chicago 3, Ill.
Cornell Paperboard Products Co, 1514 E. Thomas Ave., Milwaukee 1, Wis.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Crown Zellerbach Corp., Gaylord Container Corp. Div., 111 N. Fourth St., St. Louis 2, Mo.
Fibreboard Paper Products Corp., 475 Brannan St., San Francisco 19, Calif.
Marathon Corp., Menasha, Wis.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Rossotti Lithograph Corp., 8511A Tonnelle Ave., North Bergen, N. J.

### 17. CASES – Shipping, Fiber & Corrugated

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Container Corp. of America, 38 S. Dearborn, Chicago 3, Ill.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Cornell Paperboard Products Co., 1514 E. Thomas Ave., Milwaukee 1, Wis.
Crown Zellerbach Corp., Gaylord Container Corp. Div., 111 N. Fourth St., St. Louis 2, Mo.
Fibreboard Paper Products Corp., 475 Brannan St., San Francisco 19, Calif.
Hinde & Dauch, Box 861 FP, Sandusky, Ohio
Hoerner Boxes, Inc., 600 Morgan St., Keokuk, Ia.
Inland Container Corp., 699 W. Morris Indianapolis 6, Ind.
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
Rossotti Lithograph Corp., 8511A Tonnelle Ave., North Bergen, N. J.
Schmidt Lithograph Company, 461 Second St., San Francisco 7, Calif.
Stone Container Corp., 4200 W. 42nd Place, Chicago 32, Ill.
Weyerhaeuser Timber Co., Kieckhefer-Eddy Div., P. O. Box 710, Camden 1, N. J.

### 18. CASE PACKERS

A-B-C Packaging Machine Corp., P. O. Box 276, Tarpon Springs, Florida
Barnes, W. F. and John, Co., 301 S. Water St., Rockford, Ill.
Burt Machine Company, 401-03 E. Oliver St., Baltimore 2, Md.

Emhart Manufacturing Co., 333 Homestead Ave., Hartford 2, Conn.
Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Ferguson, J. L., Company, Joliet, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Food Machinery and Chemical Corp., Stokes and Smith Co., 4952 Summerdale Ave., Philadelphia 24, Pa.
Geveke & Co., Inc., 25 Broadway, New York 4, N. Y.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Old Dominion Box Co., 528 Turner Drive, Charlotte 1, N. C.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.
Willsea Works, 371 Saint Paul St., Rochester 5, N. Y.

### 19. CASE PRINTING MACHINES

Diagraph-Bradley Industries, Inc., Dept. FP, Herrin, Ill.
Emhart Manfacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Ferguson, J. L., Co., 2317 W. Jefferson, Joliet, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif
Gottscho, Adolph, Inc., 6 Evans Terminal, Hillside 5, N. J.
Industrial Marking Equipment Co., Inc., 454 Baltic St., Brooklyn 17, N. Y.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 20. CASE SEALERS

AB-C Packaging Machine Corp., Tarpon Springs, Fla.
Better Packages, Inc., Plant C, 251 Canal St., Shelton, Conn.
Emhart Manufacturing Co., 333 Homestead Ave, Hartford 2, Conn.
Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Ferguson, J. L., Company, Joliet, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Food Machinery and Chemical Corp., Stokes and Smith Co., 4952 Summerdale Ave., Philadelphia 24, Pa.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.
Whitney, L. A., Co., Inc., 50 Kearney Rd., Needham 94, Mass.

### 21. CASE STITCHERS

Acme Steel Co., 135th & Perry, Chicago 27, Ill.
Diagraph-Bradley Industries, Inc., Dept. FP, Box 269, Herrin, Ill.
Dudley Machinery Corp., 2750 Scott Lane, P. O. Box 150, Santa Clara, Calif.
Food Machinery & Chemical Corp, Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.

### 22. CASE UNPACKER

Barry-Wehmiller Machinery Company, 4660 West Florissant Ave., St. Louis 15, Mo.
Radio Corp. of America, Front & Cooper Sts., Camden 2, N. J.

### 23. CELLOPHANE

American Viscose Corp., Film Div., 1617 Pennsylvania Blvd., Philadelphia 3, Pa.
Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Crown Zellerbach Corp., Western-Waxide Div., 2101 Williams St., San Leandro, Calif.
du Pont, E. I., de Nemours & Co., Inc., Film Dept., Wilmington 98, Del.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Olin-Mathieson Chemical Corporation, Film Div., 655 Madison Ave., New York 21, N.Y.

### 24. CELLULOSE BANDS

American Viscose Corp., Film Div., 1617 Pennsylvania Blvd., Philadelphia 3, Pa.
Armstrong Cork Company, West Liberty St, Lancaster, Pa.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
du Pont, E. I., de Nemours & Co., Inc., Film Dept., Wilmington 98, Del.
Meyer, Geo. J., Mfg. Co., Economic Machinery Co. Div., 60 Fremont St., Worcester, Mass.

### 25. CLEANING MACHINES (Air) – Glass or Tin

Eryle Co., 1539 Folsom St., San Francisco 3, Calif.
MRM Company, Inc., 191 Berry St., Brooklyn 11, N. Y.
Pneumatic Scale Corp., Ltd., 65 Newport Ave., Quincy 71, Mass.
U. S. Bottlers Machinery Co., Dept. F, 4015 N. Rockwell St., Chicago 18, Ill.
White Cap Co., Subsidiary, Continental Can Co., Inc., 1819 N. Major Ave., Chicago 39, Ill.

### 26. CLOSING MACHINES – Glass

Anchor Hocking Glass Corp., 80 Glass Avenue, Lancaster, Ohio
Ball Brothers Company, Inc., 9th & Macedonia Sts., Muncie, Ind.
Basca Mfg. Co., 2222 W. Olney, Indianapolis 18, Ind.
Canning Machinery Co., 5105 S.W. 45th Ave., Portland 1, Oregon
Swanson, W. H., and Co., 1220 Washington Ave., Box 294, Wilmette, Ill.

### 27. CLOSURE LINERS

Armstrong Cork Company, West Liberty St., Lancaster, Pa.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Basca Mfg. Co., 2222 N. Olney, Indianapolis 18, Ind.
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
Poly-Seal Crop., 405 Lexington Ave., New York 17, N. Y.

### 28. CLOSURES – Crown

Bliss, E. W., Company, 1375 Raff Road, S. W., Canton 10, Ohio
Continental Can Company, 100 East 42nd St, New York 17, N. Y.
Crown Cork & Seal Co., Baltimore 3, Md.

### 29. CLOSURES – Lug or Screw

Aluminum Co. of America, 1501 Aloca Bldg., Pittsburgh 19, Pa.
Anchor Hocking Glass Corp., 80 Glass Avenue, Lancaster, Ohio
Armstrong Cork Co., Liberty and Charlotte Sts., Lancaster, Pa.
Ball Brothers Company, Inc., 9th & Macedonia Sts., Muncie, Ind.
Bernardin Bottle Cap Co., Inc., 2201 W. Maryland St., Evansville, Ind.
Bliss, E. W., Company, 1375 Raff Road, S. W., Canton 10, Ohio
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Elgin Mfg. Co., 200 Brook St., Elgin, Ill.
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
Phoenix Metal Cap Co., 2444 W. Sixteenth St, Chicago 8, Ill.
Poly-Seal Corp., 405 Lexington Ave., New York 17, N. Y.

# Section F

## Packaging Equipment

### 30. CLOSURES – Molded Plastic

Aluminum Co. of America, 1501 Aloca Bldg., Pittsburgh 19, Pa.
Anchor Hocking Glass Corp., 80 Glass Avenue, Lancaster, Ohio
Armstrong Cork Co., West Liberty St., Lancaster, Pa.
Bernardin Bottle Cap Co., Inc., 2201 W. Maryland St., Evansville, Ind.
Phoenix Metal Cap Co., 2444 W. Sixteenth St., Chicago 8, Ill.
Plastic Container Corporation, West Warren, Mass.
Shamban, W. S., & Co., 11617 W. Jefferson Blvd., Culver City, Calif.

### 31. CLOSURES – Vacuum

Anchor Hocking Glass Corp., 80 Glass Avenue, Lancaster, Ohio
Ball Brothers Company, Inc., 9th & Macedonia Sts., Muncie, Ind.
Bernardin Bottle Cap Co., Inc., 2201 W. Maryland St., Evansville, Ind.
Bliss, E. W., Company, 1375 Raff Road, S. W., Canton 10, Ohio
Continental Can Company, 100 East 42nd St., New York 17, N. Y
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
White Cap Co., Subsidiary, Continental Can Co., Inc., 1819 N. Major Ave., Chicago 39, Ill.

### 32. CODE DATING EQUIPMENT

Better Packages, Inc., Plant C, 251 Canal St., Shelton, Conn.
Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Gottscho, Adolph, Inc., 6 Evans Terminal, Hillside 5, N. J.
Industrial Marking Equipment Co., Inc., 655 Berriman St., Brookyln 8, N.Y.
Matthews, Jas. H. & Co., 3809 Forbes St., Pittsburgh 13, Pa.
Schubert, H. A., Co., 1212 Washington Ave., Wilmette, Ill.
White Cap Co., Subsidiary, Continental Can Co., Inc., 1819 N. Major Ave., Chicago 39, Ill.

### 33. CONTAINER LININGS

Metalweld Inc., Protective Coatings Div., Scotts Lane & Abbottsford Ave., Philadelphia 29, Pa.

### 34. CONTAINERS – Rigid Foil

Basca Mfg. Co., 2222 N. Olney, Indianapolis 18, Ind.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Pressed Steel Tank Co., 1445 S. 66th St., Milwaukee 14, Wisc.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.

### 35. DRUMS – Fiber

Continental Can Company, 100 East 42nd St, New York 17, N. Y.

### 36. DRUMS – Metal

Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.

# Section F

## Packaging Equipment

Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa.
Pressed Steel Tank Co., 1466 South 66th St., Milwaukee 14, Wis.
Republic Steel, 3100 E. 45th St., Cleveland 27, Ohio
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
Wear-Ever Aluminum, Inc., Wear-Ever Bldg., 10th Ave. & 11th St., New Kensington, Pa.

### 37. FOIL – Aluminum

Aluminum Co. of America, 1501 Aloca Bldg., Pittsburgh 19, Pa.
Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
Basca Mfg. Co., 2222 N. Olney, Indianapolis 18, Ind.
Crown Zellerbach Corp., Western-Waxide Div., 2101 Williams St., San Leandro, Calif.
Kaiser Aluminum & Chemical Corp., Container Div., 1924 Broadway, Oakland, Calif.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
Wear-Ever Aluminum, Inc., Wear-Ever Bldg., 10th Ave. & 11th St., New Kensington, Pa.

### 38. FOIL – Metal

Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.

### 39. GLASS CONTAINERS – Narrow Neck

Anchor Hocking Glass Corp., 80 Glass Avenue, Lancaster, Ohio
Armstrong Cork Co., Liberty and Charlotte Sts., Lancaster, Pa.
Ball Brothers Company, Inc., 9th & Macedonia Sts., Muncie, Ind.
Brockway Glass Co., Inc., Wood St., Brockway, Pa.
Continental Can Company, 100 East 42nd St, New York 17, N. Y.
Knox Glass, Inc., Knox, Pa.
Glass Containers Corp., 2135 A St., P. O. Box 3427, Hayward, Calif.
Metro Glass Co., Inc., 109 West Side Ave., Jersey City, N. J.
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
Thatcher Glass Mfg. Co., Inc., Box 265, Elmira, N. Y.
Tygart Valley Glass Co., Washington, Pa.

### 40. GLASS CONTAINERS – Wide Mouth

Anchor Hocking Glass Corp., 80 Glass Avenue, Lancaster, Ohio
Ball Brothers Company, Inc., 9th & Macedonia Sts., Muncie, Ind.
Brockway Glass Co., Inc., Wood St, Brockway, Pa.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Glass Containers Corp., 2135 A St., P. O. Box 3427, Hayward, Calif.
Knox Glass, Inc., Knox, Pa.
Metro Glass Co., Inc., 109 West Side Ave., Jersey City, N. J.
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
Thatcher Glass Mfg. Co., Inc., Box 265, Elmira, N. Y.
Tygart Valley Glass Co., Washington, Pa.

### 41. GLASS CONTAINERS – Special

Anchor Hocking Glass Corp, 80 Glass Avenue, Lancaster, Ohio
Armstrong Cork Co., Liberty and Charlotte Sts., Lancaster, Pa.
Brockway Glass Co., Inc., Wood St., Brockway, Pa.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Corning Glass Works, Corning, N. Y.
Glass Containers Corp., 2135 A St., P. O. Box 3427, Hayward, Calif.
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
Metro Glass Co., Inc., 109 West Side Ave., Jersey City, N. J.
Thatcher Glass Mfg. Co., Inc., Box 265, Elmira, N. Y.
Tygart Valley Glass Co., Washington, Pa.

### 42. HEAT SEALING MACHINES

Amsco Packaging Mach., Inc., 31-31 48th Ave., Long Island City 1, N. Y.
Basca Mfg. Co., 2222 N. Olney, Indianapolis 18, Ind.
MRM Company, Inc., 191 Berry St., Brooklyn 11, N. Y.
Food Machinery and Chemical Corp., Stokes and Smith Co., 4952 Summerdale Ave., Philadelphia 24, Pa.

### 43. LABELING MACHINES – Can

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Burt Machine Company, 401-03 E. Oliver St., Baltimore 2, Md.
Diagraph-Bradley Industries, Inc., Dept. FP, Box 269, Herrin, Ill.
Emhart Manufacturing Co., 333 Homestead Ave., Hartford 2, Conn.
Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
MRM Company, Inc., 191 Berry St, Brooklyn 11, N. Y.
Pneumatic Scale Corp., Ltd., 65 Newport Ave., Quincy 71, Mass.
Potdevin Machine Co., 207A North St., Teterboro, N. J.

### 44. LABELING MACHINES – Glass

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Barry-Wehmiller Machinery Company, 4660 West Florissant Ave., St Louis 15, Mo.
Burt Machine Company, 401-03 E. Oliver St., Baltimore 2, Md.
Diagraph-Bradley Industries, Inc., Dept. FP, Box 269, Herrin, Ill.
Emhart Manufacturing Co., Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Geveke & Co., Inc., 25 Broadway, New York 4, N. Y.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.
Meyer, Geo. J., Mfg. Co., Economic Machinery Co. Div., 60 Fremont St., Worcester, Mass.
MRM Company, Inc., 191 Berry St., Brooklyn 11, N. Y.
New Jersey Machine Corp., 16 St. & Willow Ave., Hoboken, N. J.
Pneumatic Scale Corp., Ltd., 65 Newport Ave., Quincy 71, Mass.
Potdevin Machine Co., 207A North St., Tetersboro, N. J.

### 45. LABELS – Can

Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
Calvert Lithographing Co., The, 2100 Grand River Ave., W., Detroit 1, Mich.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Fort Dearborn Lithograph Co., 6035 W. Gross Point Road, Chicago 31, Ill.
Independent Lithograph Co, Alabama at Sixteenth, San Francisco 3, Calif.
Kalamazoo Label Company, Ransom & Packer Streets, Kalamazoo, Mich.
Lustour Corp., 10 S. Brentwood Blvd., St. Louis 5, Mo.
Michigan Lithographing Company, 1 Carlton, S.E., Grand Rapids 6, Mich.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Murison Label Co., Inc., 435 Stockton Ave., San Jose, Calif.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
Schmidt Lithograph Company, 461 Second St., San Francisco 7, Calif.
U. S. Printing & Lithograph Company, The, 354 Beech St., Cincinnati 12, Ohio

### 46. LABELS – Glass

Calvert Lithographing Co., The, 2100 Grand River Ave., W., Detroit 1, Mich.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Fort Dearborn Lithograph Co., 6035 W. Gross Point Road, Chicago 31, Ill.
Independent Lithograph Co., Alabama at Sixteenth, San Francisco 3, Calif.
Kalamazoo Label Company, Ransom & Packer Streets, Kalamazoo, Mich.
Lustour Corp., 10 S. Brentwood Blvd., St. Louis 5, Mo.
Michigan Lithographing Company, 1 Carlton, S.E., Grand Rapids 6, Mich.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Murison Label Co., Inc., 435 Stockton Ave., San Jose, Calif.
Paramount Paper Products Co, 4401 North 23rd St., Omaha 10, Nebr.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
Schmidt Lithograph Company, 461 Second St., San Francisco 7, Calif.
U. S. Printing & Lithograph Company, The, 354 Beech St., Cincinnati 12, Ohio

### 47. LABELS – Lithographed

Calvert Lithographing Co., The, 2100 Grand River Ave., W., Detroit 1, Mich.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Fort Dearborn Lithograph Co., 6035 W. Gross Point Road, Chicago 31, Ill.
Gamse Lithographing Co., Inc., Baltimore 6, Md.
Independent Lithograph Co., Alabama at Sixteenth, San Francisco 3, Calif.
Michigan Lithographing Company, 1 Carlton, S.E., Grand Rapids 6, Mich.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Murison Label Co., Inc., 435 Stockton Ave., San Jose, Calif.
Rossotti Lithograph Corp., 8511A Tonnelle Ave., North Bergen, N. J.
Schmidt Lithograph Company, 461 Second St., San Francisco 7, Calif.
U. S. Printing & Lithograph Company, The, 354 Beech St., Cincinnati 12, Ohio

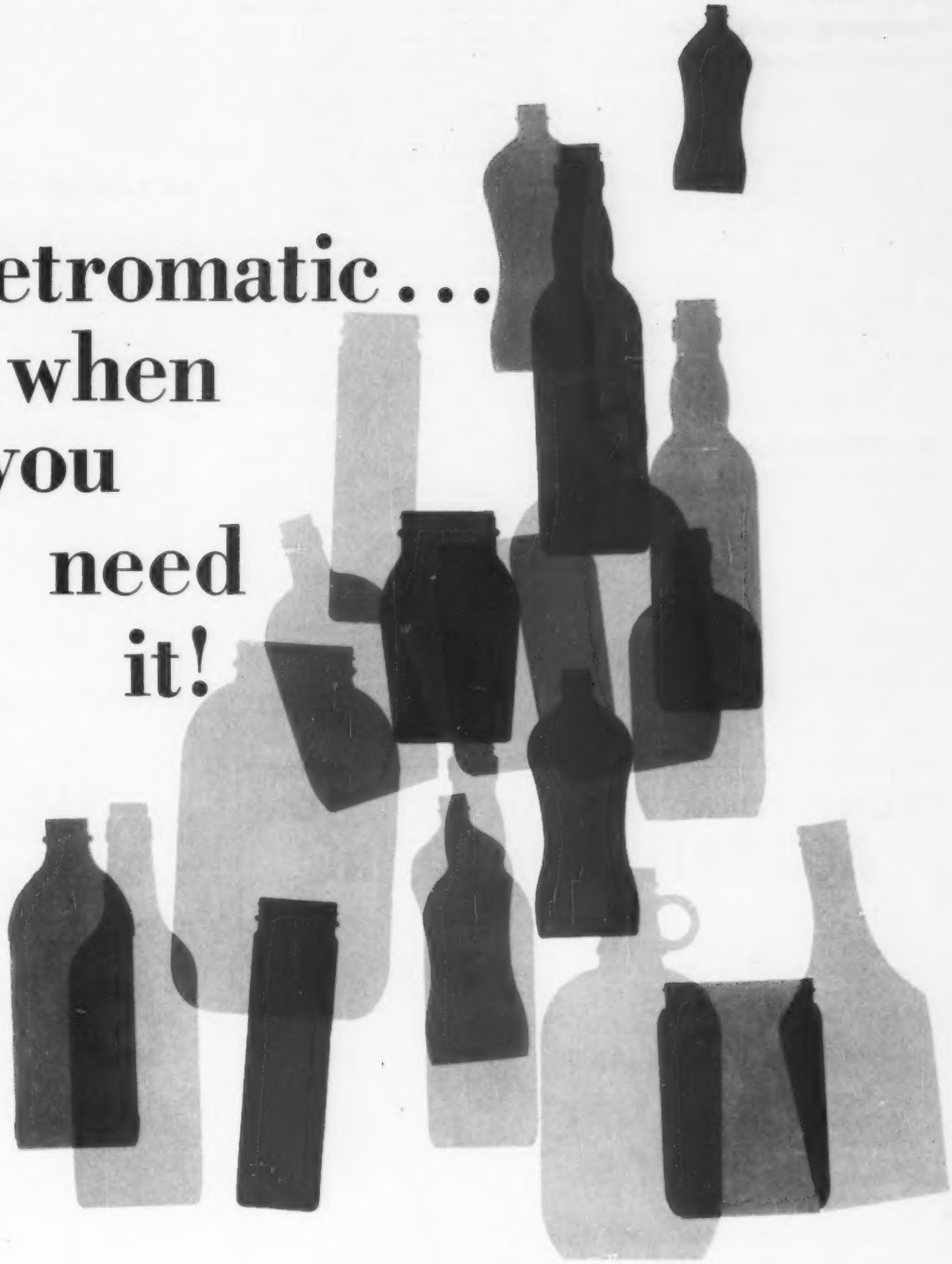
### 48. LABELS – Shipping

Calvert Lithographing Co., The, 2100 Grand River Ave., W., Detroit 1, Mich.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Independent Lithograph Co., Alabama at Sixteenth, San Francisco 3, Calif.
Kalamazoo Label Company, Ransom & Packer Streets, Kalamazoo, Mich.
Michigan Lithographing Company, 1 Carlton, S.E, Grand Rapids 6, Mich.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Paramount Paper Products Co., 4401 North 23rd St., Omaha 10, Nebr.
Schmidt Lithograph Company, 461 Second St., San Francisco 7, Calif.
Weber Addressing Machine Co., Inc., Weber Marking Systems Div., 215 E. Prospect Ave., Mount Prospect, Ill.

### 49. LABELS – Wrap Around

Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.

# Metromatic . . . when you need it!



A complete line of wide-mouth and narrow-neck glass containers to your exact specifications and production schedules.

*Manufacturers of Quality Glass Containers*

**METRO GLASS**

METRO GLASS COMPANY, Inc., General offices: Jersey City, New Jersey

# Section F
## Packaging Equipment

Calvert Lithographing Co., The, 2100 Grand River Ave., W., Detroit 1, Mich.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Independent Lithograph Co., Alabama at Sixteenth, San Francisco 3, Calif.
Kalamazoo Label Company, Ransom & Packer Streets, Kalamazoo, Mich.
Lustour Corp., 10 S. Brentwood Blvd., St. Louis 5, Mo.
Michigan Lithographing Company, 1 Carlton, S.E., Grand Rapids 6, Mich.
Murison Label Co., Inc., 435 Stockton Ave., San Jose, Calif.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
Schmidt Lithograph Company, 461 Second St., San Francisco 7, Calif.
U. S. Printing & Lithograph Company, The, 354 Beech St., Cincinnati 12, Ohio

### 50. MARKING EQUIPMENT

Addressograph-Multigraph Corp., 1200 Babbitt Road, Cleveland 17, Ohio
Albertoli, John, 418 Beach St., San Francisco, Calif.
Barry-Wehmiller Machinery Company, 4660 West Florissant Ave., St. Louis 15, Mo.
Blaisdell Pencil Co., Bethayres, Pa.
Ferguson, J. L., Company, Joliet, Ill.
Diagraph-Bradley Industries, Inc., Dept. FP, Herrin, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Gottscho, Adolph, Inc., 6 Evans Terminal, Hillside 5, N. J.
Industrial Marking Equipment Co., Inc., 454 Baltic St., Brooklyn 17, N. Y.
Matthews, Jas. H. & Co., 3809 Forbes St., Pittsburgh 13, Pa.
New Jersey Machine Corp., 16 St. & Willow Ave., Hoboken, N. J.
Schubert, H. A., Co., 1212 Washington Ave., Wilmette, Ill.
Weber Addressing Machine Co., Inc., Weber Marking Systems Div., 215 E. Prospect Ave., Mount Prospect, Ill.

### 51. MULTIPLE PACKS

Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
U. S. Printing & Lithograph Company, The, 354 Beech St., Cincinnati 12, Ohio

### 52. OVERWRAPS

American Viscose Corp., film Div., 1617 Pennsylvania Blvd., Philadelphia 3, Pa.
Allied Chemical Corp., Semet-Solvay Petrochemical Div., 5th Floof, 40 Rector St., New York 6, N. Y.
Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Crown Zellerbach Corp., Western-Waxide Div., 2101 Williams St., San Leandro, Calif.
K V P Co., 1957 Riverview Drive, Kalamazoo, Mich.
Lynch Corp., Anderson, Ind.
Marathon Corp., Menasha, Wis.
Murison Label Co., Inc., 435 Stockton Ave., San Jose, Calif.
Package Machinery Co., Putnam Bldg., East Longmeadow, Mass.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
Tennessee-Eastman Co., Kingsport, Tenn.

### 53. PACKAGES – Fiber & Metal

American Can Company, 100 Park Avenue, New York 17, N. Y.
Fort Wayne Corrugated Paper Co., 130 E. Douglas Ave., Fort Wayne 1, Ind.
Middlesex Paper Tube Co., 340 Chelmsford St., Lowell, Mass.
Kaiser Aluminum & Chemical Corp., Container Div., 1924 Broadway, Oakland, Calif.

### 54. PACKAGES – Frozen Food

Allied Chemical Corp., Semet-Solvay Petrochemical Div., 5th Floof, 40 Rector St., New York 6, N. Y.
American Can Company, 100 Park Avenue, New York 17, N. Y.
Bemis Bros. Bag Co., 408 Pine St., Box 112, St. Louis 2, Mo.
Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
Container Corp. of America, 38 So. Dearborn St., Chicago 3, Ill.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Crown Zellerbach Corp., Western-Waxide Div., 2101 Williams St., San Leandro, Calif.
Fibreboard Paper Products Corp., 475 Brannan St., San Francisco 19, Calif.
Marathon Corp., Menasha, Wis.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wisc.
Murison Label Co., Inc., 435 Stockton Ave., San Jose, Calif.
Reynolds Metals Company, 2500 South Third St., Louisville 1, Ky.
Rossotti Lithograph Corp., 8511A Tonnelle Ave., North Bergen, N. J.
Schmidt Lithograph Company, 461 Second St., San Francisco 7, Calif.

### 55. PAPER – Corrugated

Container Corp. of America, 38 So. Dearborn St., Chicago 3, Ill.
Continental Can Company, 100 East 42nd St., New York 17, N. Y.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
Crown Zellerbach Corp., Gaylord Container Corp. Div., 111 N. Fourth St., St. Louis 2, Mo.
Fibreboard Paper Products Corp., 475 Brannan St., San Francisco 19, Calif.
Hinde & Dauch, Box 861 FP, Sandusky, Ohio
Owens-Illinois Glass Company, P. O. Box 1035, Toledo 1, Ohio
Schmidt Lithograph Company, 461 Second St., San Francisco 7, Calif.
Stone Container Corp., 4200 W. 42nd Place, Chicago 32, Ill.
Weber Addressing Machine Co., Inc., Weber Marking Systems Div., 215 E. Prospect Ave., Mount Prospect, Ill.

### 56. PAPER – Glassine

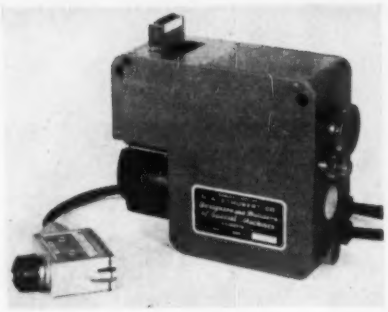
Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
Bemis Bros. Bag Co., 408 Pine St., Box 112, St. Louis 2, Mo.
Crown Zellerbach Corp., Western-Waxide Div., 2101 Williams St., San Leandro, Calif.

### 57. PAPER – Moisture Resistant

Allied Chemical Corp., Semet-Solvay Petrochemical Div., 5th Floof, 40 Rector St., New York 6, N. Y.
American Sisalkraft Corp., 55 Starkey Ave., Attleboro, Mass.
Container Corp. of America, 38 So. Dearborn St., Chicago 3, Ill.
Cromwell Paper Co., 4815 S. Whipple, Chicago 32, Ill.
Crown Zellerbach Corp., Western-Waxide Div., 2101 Williams St., San Leandro, Calif.
K V P Co., 1957 Riverview Drive, Kalamazoo, Mich.
Lynch Corp., Anderson, Ind.


BUILT TO MEET YOUR NEED FOR
ACCURATE CODE DATING

The Schubert code dater fills the need for code dating equipment as attachements on present labeling or packaging machines. Compack design and ease of mounting make this code dater ideal for any package requiring a code date or part number. The unit will either make an impression mark or can be easily adjusted for roll-over marking on roll-through labeling machines.



THE SCHUBERT CODE DATER designed for easy mounting on your present labeling or packaging machines.

SPECIFICATIONS: Micro switch operates up to 300 impressions per minute. Removable type holder for easy changing. Cylinder type totally enclosed ink mechanism. Micro adjustment for correct contact. Overall dimensions: Length 7" Height 5¾" Width 2⅝". Universal mounting bracket furnished, or unit can be mounted by two ⅜" holes on frame. Motor: 110 v. 60 cycle—ball bearing instrument motor. Unit: All ball bearing—with one revolution clutch, housing grease sealed.

H. A. SCHUBERT CO. 1212 WASHINGTON AVE., WILMETTE, ILL.

### 58. PAPER – Waxed

Allied Chemical Corp., Semet-Solvay Petrochemical Div., 5th Floof, 40 Rector St., New York 6, N. Y.
Cromwell Paper Co., 4815 S. Whipple, Chicago 32, Ill.
Crown Zellerbach Corp., Western-Waxide Div., 2101 Williams St., San Leandro, Calif.
K V P Co., 1957 Riverview Drive, Kalamazoo, Mich.
Marathon Corp., Menasha, Wis.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.

### 59. SCALES – Automatic Weighing

Bemis Bros. Bag Co., 408 Pine St., Box 112, St. Louis 2, Mo.
Conveyor Company, The, 3260 E. Slauson Ave., Los Angeles 58, Calif.
Emhart Manufacturing Co., 333 Homestead Ave., Hartford 2, Conn.
Emhart Mfg. Co , Standard-Knapp Div., Main Street, Portland, Conn.
Exact Weight Scale Co., 918 W. 5th Ave., Columbus 8, Ohio
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5. Ill.
Hi-Speed Checkweigher Co., Inc., 600 W. State St., Ithaca, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Hayssen Mfg. Co., 1305 St. Clair Ave., Sheboygan, Wis.
Howe Scale Co., The, 213 Strongs Ave., Rutland, Vt.
Pennsylvania Scale Co., Bareville 2, Pa.
Pneumatic Scale Corp., Ltd., 65 Newport Ave., Quincy 71, Mass.
Richardson Scale Co., 670 Van Houten Ave., Clifton, N. J.
Weigh Right Automatic Scale Co., East Mills Road, P. O. Box 896, Joliet, Ill.
Stokes & Smith Plant, FMC Packaging Machinery Div., 4952 Summerdale Ave., Philadelphia 24, Pa.

### 60. SEAMERS – Can

Bliss, E W., Company, 1375 Raff Road, S. W., Canton 10, Ohio
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Vermont Marble Co., Callahan Can Machine Co., Proctor, Vt.

### 61. SHIPPING CONTAINERS – Frozen Food

Cornell Paperboard Products Co., 1514 E. Thomas Ave., Milwaukee 1, Wis.
Crown Zellerbach Corp., Gaylord Container Corp. Div., 111 N Fourth St., St. Louis 2, Mo.
Hinde & Dauch, Box 861 FP, Sandusky, Ohio
Inland Container Corp., 699 W. Morris Indianapolis 6, Ind.
Tote System, Inc., Beatrice, Nebr.

### 62. SHIPPING CONTAINERS– Steel, Fiber

Inland Container Corp., 699 W. Morris Indianapolis 6, Ind.
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa.
Pressed Steel Tank Co., 1466 South 66th St., Milwaukee 14, Wis.
Republic Steel, 3100 E. 45th St., Cleveland 27, Ohio
Tote System, Inc., Beatrice, Nebr.

### 62A. STEEL STRAPPING

Acme Steel Co., 135th & Perry, Chicago 27, Ill.

### 63. STAPLING MACHINES

Arrow Fastener Co., Inc., 1 Junius St., Brooklyn 12, N. Y.
Diagraph-Bradley Industries, Inc., Dept. FP, Box 269, Herrin, Ill.

## Section F
## Processing Equipment

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
International Staple and Machine Co., P. O. Box 270, Herrin St., Herrin, Ill.

### 64. STITCHING WIRE

Acme Steel Co., 135th & Perry, Chicago 27, Ill.
Chicago Steel & Wire Co., 10257 Torrence Ave., Chicago 17, Ill.
Colorado Fuel and Iron Corp., The, Wickwire Spencer Steel Div., 575 Madison Ave., New York 22, N. Y.
Diagraph-Bradley Industries, Inc. Dept. FP, Box 269, Herrin, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.

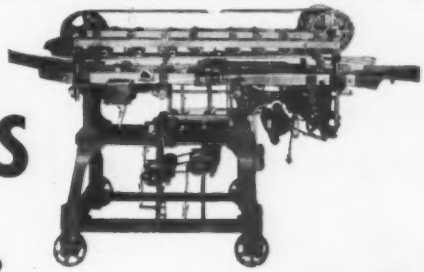
### 65. TAPE – Gummed

Paramount Paper Products Co., 4401 North 23rd St, Omaha 10, Nebr.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.

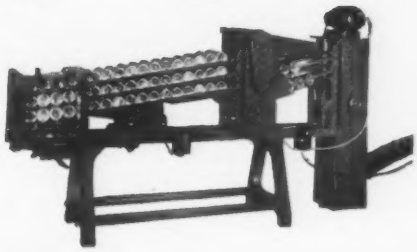
### 66. TAPE – Pressure Sensitive

Bemis Bros. Bag Co., 408 Pine St., Box 112, St. Louis 2, Mo.
Crocker, H. S., Co., Inc., 1000 San Mateo Ave., San Bruno, Calif.
American Tape Company, 4048 Beaufait Ave., Dept.,FP, Detroit 7, Mich.
Durkee-Atwood Co., 215 N.E. 7th St., Minneapolis 13, Minn.
Johns-Manville, 22 East 40th St., New York 16, N. Y.


PACKING and LABELING COSTS GO DOWN! . . . with BURT ON THE JOB!



BURT NON-STOP LABELERS give uninterrupted service on glass, cans or cartons. Exclusive dual label feed and auxiliary feed fingers assure fast, accurate labeling.



BURT HIGH SPEED CASE PACKERS save you time . . . packing two layers with a single stroke. It's the easiest can handling method available.

WRITE TODAY FOR DETAILS . . .

BURT

BURT MACHINE COMPANY 401 East Oliver Street Baltimore 2, Maryland

# Section F
## Packaging Equipment

Milprint Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Paramount Paper Products Co., 4401 North 23rd St., Omaha 10, Nebr.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Shamban, W. S., & Co., 11617 W. Jefferson Blvd., Culver City, Calif.

### 67. TAPE DISPENSERS

Better Packages, Inc., Plant C, 251 Canal St., Shelton, Conn.
Diagraph-Bradley Industries, Inc., Dept. FP, Box 269 Herrin, Ill.
Marsh Stencil Machine Co., Belleville, Ill.
Paramount Paper Products Co., 4401 North 23rd St., Omaha 10, Nebr.

### 68. TAPE SEALING MACHINES

Better Packages, Inc., Plant C, 251 Canal St., Shelton, Conn.

### 69. TIN PLATE

Republic Steel, 3100 E. 45th St., Cleveland 27, Ohio
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 5, Pa.

### 70. TRANSPARENT FILMS

Allied Chemical Corp., Semet-Solvay Petrochemical Div., 5th Floof, 40 Rector St., New York 6, N. Y.
American Viscose Corp., Film Div. 1617 Pennsylvania Blvd., Philadelphia 3, Pa.
Arvey Corporation, 3500 N. Kimball, Chicago 18, Ill.
du Pont, E. I., de Nemours & Co., Film Dept., Wilmington 98, Del.
Emhart Manufacturing Co., 333 Homestead Ave., Hartford 2, Conn.
Milprint, Inc., 4200 N. Holton St., Milwaukee 1, Wis.
Shamban W. S. & Co., 11617 W. Jefferson Blvd., Culver City, Calif.

### 71. WASHERS – Glass Container

Barry-Wehmiller Machinery Company, 4660 West Florissant Ave., St. Louis 15, Mo.
Emhart Manufacturing Co., 333 Homestead Ave., Hartford 2, Conn.
Emhart Manufacturing Co, Standard-Knapp Division, 127 Off Main Street, Portland, Conn.
Eyrle Co., 1539 Folsom St., San Francisco 3, Calif.
Jacobowitz, Charles S., Corp., 3083 Main Street, Buffalo 14, N. Y.

### 72. WIRE STITCHING MACHINES

Acme Steel Co., 135th & Perry, Chicago 27, Ill.
Diagraph-Bradley Industries, Inc., Dept. FP, Box 269, Herrin, Ill.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.

### 73. WRAPPING MACHINES – Frozen Food

Amsco Packaging Mach., Inc, 31-31 48th Ave., Long Island City 1, N. Y.
Elgin Mfg. Co., 200 Brook St., Elgin, Ill.
Hayssen Mfg. Co., 1305 St. Clair Ave., Sheboygan, Wis.
Lynch Corp., Anderson, Ind.
Package Machinery Co., Putnam Bldg., East Longmeadow, Mass.

# SECTION G
# quality control equipment and supplies

### 1. ACIDS

Allied Chemical Corp., General Chemical Division, 40 Rector St., New York 6, N. Y.
Merck & Co., Inc., Rahway, N. J.
Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Union Carbide Chemicals Company Div. of Union Carbide Corp., 30 East 42nd St., New York 17, N. Y.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 2. ALCOHOL

Pittsburgh Plate Glass Company, 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.
Union Carbide Corp. Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.
Union Carbide Corp., Union Carbide Chemicals Company Div., 30 East 42nd St., New York 17, N. Y.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 3. AUTOCLAVES

American Machinery Co., 420 Market St., San Francisco 11, Calif.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Barnstead Still & Demineralize Co, 2 Langsville Terrace, Boston 31, Mass.
Blaw-Knox Company, Buflovak Equipment Division, 1637 Fillmore Avenue, Buffalo 11, N. Y.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 4. CAN TEMPERATURE MEASURING DEVICES

Fenwal, Inc., Pleasant St., Ashland, Mass.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
United Electric Controls Co., 85 School St., Watertown 72, Mass.

### 5. CAN SEAM TESTERS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St, San Jose 8, Calif.
Wilkins-Anderson Co., Dept WSB, 4525 W. Division, Chicago 51, Ill.

### 6. CAN TESTING MACHINES

Armstrong Cork Co., Liberty and Charlotte Sts., Lancaster, Pa.
Bliss, E. W. Company, 1375 Raff Road, S. W., Canton 10, Ohio
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.

### 7. COLOR INSTRUMENTS

Macbeth Corp., Dept. FP, Newburgh, N.Y.
Will Corporation, Wilco Drive, Rochester 3, N. Y

### 8. CONSISTENCY INSTRUMENTS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Foxboro Company, The, Foxboro, Mass.
United Company, The, Tuc Road Westminster, Md.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 9. DAYLIGHT LAMPS & GRADING LIGHTS

Macbeth Corp., Dept FP, Newburgh, N.Y.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 10. DISTILLING APPARATUS

Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Barnstead Still & Demineralize Co., 2 Langsville Terrace, Boston 31, Mass.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Corning Glass Works, Corning, N. Y.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 10A. FIBER TESTING EQUIPMENT

Ronningen-Petter Company, 330 S. 27th St., Vicksburg 1, Mich.

### 11. FILTERS – Laboratory

American Machine & Metals Inc., Niagara Filters Div., 548 Packer St., East Moline, Ill.
Barnstead Still & Demineralize Co., 2 Langsville Terrace, Boston 31, Mass.
Cellulo Co., The, P. O. Box 686, Sandusky, Ohio
Eberbach & Son Co., 200 E. Liberte St., Ann Arbor, Mich.
Newark Wire Cloth Company, 351 Verona Ave., Newark 4, N. J.
Ronningen-Petter Company, 330 S. 27th St., Vicksburg 1, Mich.
Sparkler Mfg. Co., 169 Lake St., Mundelein, Ill.
Sperry, D. R. Co., 19 FP State Road, North Aurora, Ill.
United States Stoneware Co., The, Tallmadge Circle, Akron 9 Ohio
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 12. GLASSWARE – Laboratory

Armstrong Cork Company, West Liberty St., Lancaster, Pa.
Corning Glass Works, Corning, N Y.
Eberbach & Son Co., 200 E. Liberte St., Ann Arbor, Mich.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 13. GRADING SCREENS

Colorado Fuel and Iron Corp., The, Wickwire Spencer Steel Div., 575 Madison Ave., New York 22, N. Y
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Key Equipment Company, P. O. Box 1036, 217 E. Broadway, Milton-Freewater, Ore.
Newark Wire Cloth Co., 351 Verona Ave., Newark 4, N. J.
United Company, The, Tuc Road, Westminster, Md.

### 14. HEAD SPACE GAUGES

General Electric Co., X-Ray Dept., 4855 Electric Ave., Milwaukee 1, Wis.

# You get more than APPETITE APPEAL

Muirson's nature-color reproduction says "let's eat." But with Muirson, appetite appeal is just *part* of the job. Because we *specialize* in labels, they start with perfect design — get first priority on the world's finest color presses — end with *delivery on time*. It means better labels . . . better service!

## because MUIRSON *specializes in* LABELS

This page produced in its entirety by Muirson Label Co. Inc. • Complete plants in San Jose, Calif.; Peoria, Ill.; and Meriden, Conn.

# Section G

## Laboratory Supplies

### 15. HYDROMETERS

Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Will Corporation, Wilco Drive, Rochester 3, N Y.

### 16. INCUBATORS – Bacteriological

Eberbach & Son Co., 200 E. Liberte St., Ann Arbor, Mich.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 17. METERS – pH (Concentration, Hydrogen Ion)

Eberbach & Son Co., 200 E. Liberte St., Ann Arbor, Mich.
Foxboro Company, The, Foxboro, Mass.
LaMotte Chemical Products Co., Chestertown, Md.
Leeds & Northrup Company, 4970 Stenton Ave., Philadelphia 44, Pa.
Macbeth Corp., Dept FP, Newburgh, N.Y.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 18. MICROSCOPES

American Optical Co., Instrument Div., Box A Buffalo 15, N. Y.
Bausch & Lomb Optical Co, 605 St Paul St., Rochester 2, N. Y.
Eberbach & Son Co., 200 E. Liberte St., Ann Arbor, Mich.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 18A. MIXERS AND MILLS– Laboratory

Miller, Franklin P., & Son, Inc., 30 Meadow St., East Orange, N. J.

### 20. MOLD COUNT EQUIPMENT

Bausch & Lomb Optical Co. 605 St. Paul St., Rochester 2, N. Y.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 22. REFRACTOMETERS

American Optical Co., Instrument Div., Box A, Buffalo 15, N. Y.
Bausch & Lomb Optical Co., 605 St. Paul St., Rochester 2, N. Y
Eberbach & Son Co., 200 E. Liberte St., Ann Arbor, Mich.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Will Corporation, Wilso Drive, Rochester 3, N. Y.

### 23. SCALES – Drain Weight

Exact Weight Scale Co., 918 W. 5th Ave., Columbus 8, Ohio
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Howe Scale Co., The, 213 Strongs Ave, Rutland, Vt.
Ohaus Scale Corp., 1050 Commerce Ave., Union, N. J.
Pennsylvania Scale Co., Bareville, 2, Pa.
United Company, The, Tuc Road, Westminster, Md.

### 24. SPECIFIC GRAVITY EQUIPMENT

Klenzade Products, Inc., Box 1020, Beloit, Wisc.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Foxboro Company, The, Foxboro, Mass.
Langsenkamp, F. H., Co., 227 E. South St., Indianapolis, Ind
Ohaus Scale Corp., 1050 Commerce Ave., Union, N. J.

### 25. THERMOMETERS

Eberbach & Son Co, 200 E. Liberte St., Ann Arbor, Mich.
Fenwal, Incorporated, Pleasant Street, Ashland, Mass.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Foxboro Company, The, Foxboro, Mass.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Weston Electrical Inst. Corp., 614 Frelinghuysen Ave, Newark 12, N. J.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 27. VACUUM GAUGES

Food Machinery & Chemical Corp. Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Foxboro Company, The, Foxboro, Mass.
Minneapolis-Honeywell Regulator Co., Industrial Division, Wayne & Windrim Aves., Philadelphia 44, Pa.
Wallace & Tiernan, Inc., 25 Main St., Belleville 9, N. J.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 28. VISCOSITY INSTRUMENTS

Fann Instrument Corp., P. O. Box 6101, 3202 Argonne, Houston 6, Tex.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Foxboro Company, The, Foxboro, Mass.
United Company, The, Tuc Road, Westminster, Md.
Will Corporation, Wilco Drive, Rochester 3, N. Y.

### 29. WATER TEST EQUIPMENT

Barnstead Still & Sterilizer Company, 2 Langsville Terrace, Boston 31, Mass.
Elgin Softener Corp., 134 N. Grove Ave., Elgin. Ill.

### 30. ZEOLITES

Elgin Softener Corp., 134 N. Grove Ave., Elgin. Ill.
Graver Water Conditioning Co., Dept FP, 216 W. 14th St., New York 11, N. Y.

# SECTION H

# special services

### 1. CUSTOM PROCESSING EQUIPMENT

Atlas Mineral Products Co., 121 State St., Mertztown, Pa.
Artisan Metal Products, Inc., 63 Pond St., Waltham 54, Mass.
Brighton Corp., Hamilton Kettles Div., 820 State Ave., Cincinnati 4, Ohio
Canning Machinery Company, 4525 S. W. Lee St., Portland 19, Ore.
Groen Mfg. Co., 4535 W. Armitage Ave., Chicago 39, Ill.
Mojonnier Bros. Co, 4601 West Ohio
Lee Metal Products Co., Inc., 408 Pine St., Philipsburg, Pa.
Lynch Corp., Anderson, Ind.
St., Chicago 44, Ill.
Metzgar Conveyor Co., 412 Douglas N.W., Grand Rapids 4, Mich.
MRM Company, Inc, 191 Berry St., Brooklyn 11, N. Y.
Potter Instrument Co., Inc., Sunnyside Blvd., Plainview, N. Y.
Scott Viner Company, The, 1224 Kinnear Rd., Columbus 8, Ohio

### 2. ENGINEERING – Plant & Equipment

Atlas Mineral Products Co., 121 State St., Mertztown, Pa.
Canning Machinery Company, 4525 S. W. Lee St., Portland 19, Ore.
Food Machinery & Chemical Corp., Canning Machinery Division, 333 West Julian St., San Jose 8, Calif.
Greer, J. W., Company, Wilmington, Mass.
Island Equipment Corp., 27-01 Bridge Plaza, North, Long Island City 1, N. Y.
Link-Belt Company, Dept. 57-FPGL, Prudential Plaza, Chicago 1, Ill.
Metzgar Conveyor Co., 412 Douglas N.W., Grand Rapids 4, Mich.
Sellers Injector Corp., 1600 Hamilton St., Philadelphia 30, Pa.
Snell, Foster D., Inc., 29 W. 15th St., New York 11, N. Y.
Standard Metal Products, Co., 123 N. Racine Ave., Chicago 7, Ill.

### 3. FINANCING

American Express Field Warehousing Corp., 209 S. LaSalle St., Chicago 4, Ill.
C.I.T. Corp., 650 Madison Ave., New York 22, N. Y.
New York Terminal Warehouse Co., Inc., 25 S. William St., Dept FW, New York, N. Y.

### 4. INSURANCE

Canners Exchange, 4210 Peterson Ave., Chicago 31, Ill.

### 5. LABORATORIES

Anchor Hocking Glass Corp., 80 Glass Ave., Lancaster, Ohio
Bemis Bros. Bag Co., 408 Pine St., Box 112, St. Louis 2, Mo.
Canning Machinery Company, 4525 S. W. Lee St., Portland 19, Ore.
Crown Zellerbach Corp., Western-Waxide Div., 2101 Williams St., San Leandro, Calif.
Greer, J. W., Company, Wilmington, Mass.
Snell, Foster D., Inc., 29 W. 15th St., New York 11, N. Y.
Tranter Mfg. Inc., 735 East Hazel, Lansing 9, Mich.
Wisconsin Alumni Research Foundation, Madison 1, Wis.

### 6. PACKAGING

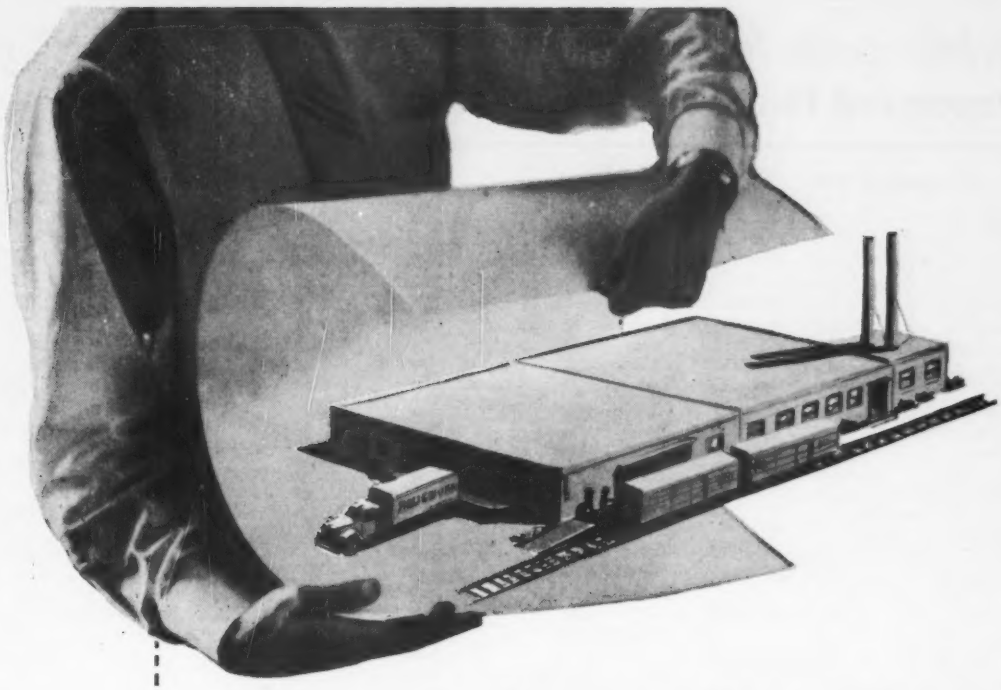
American Viscose Corp., Film Div., 1617 Pennsylvania Blvd., Philadelphia 3, Pa.
Anchor Hocking Glass Corp., 80 Glass Ave., Lancaster, Ohio

### 7. SANITATION

Klenzade Products, Inc., Box 1020, Beloit, Wis.
Metzgar Conveyor Co., 412 Douglas N.W., Grand Rapids 4, Mich.
Steelcote Manufacturing Company, 3418 Gratiot St., St. Louis 3, Mo.
Wyandotte Chemicals Corp., Dept. 92, Wyandotte, Mich.

### 8. SHIPPING

Isbrantsten Co., Inc., 26 Broadway, New York, N. Y.



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| 1957 Canners Exchange savings distribution to Policyholders totaled | Total savings to date have amounted to |
|---|---|
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## LANSING B. WARNER, INC.

**4210 PETERSON AVENUE • CHICAGO 46, ILL.**

**51 YEARS OF DEPENDABLE SPECIALIZED FIRE INSURANCE FOR FOOD PROCESSORS**

# U. S. Standards for Grades of Processed Fruits and Vegetables

**(As of May 15, 1958)**

## Canned

| | Effective |
|---|---|
| Apples | Oct. 17, 1953 |
| Apple butter | August 5, 1957 |
| Apple juice | June 26, 1950 |
| Applesauce | Sept. 18, 1950 |
| Apricots | May 17, 1957 |
| Asparagus | Mar. 12, 1957 |
| Beans, dried | Oct. 24, 1947 |
| Beans, green and wax | Mar. 2, 1953 |
| Beans, lima | July 21, 1953 |
| Beets | Feb. 4, 1955 |
| Blackberries and other similar berries (such as boysenberries, dewberries, and loganberries) | Dec. 1, 1956 |
| Blueberries | Mar. 20, 1951 |
| Carrots | Feb. 15, 1955 |
| Cherries, red sour (tart) pitted | June 23, 1949 |
| Cherries, sweet | Feb. 25, 1957 |
| Chili sauce | Oct. 20, 1953 |
| Corn, cream style | July 27, 1953 |
| Corn, whole kernel (or whole grain) | July 30, 1952 |
| Cranberry Sauce | Mar. 19, 1951 |
| Figs, kadota | August 16, 1957 |
| Fruit cocktail | August 17, 1953 |
| Fruit jelly | Jan. 2, 1948 |
| Fruit preserves (or jams) | May 25, 1956 |
| Fruits for salad | April 1, 1942 |
| Grapefruit | Jan. 19, 1954 |
| Grapefruit juice | Oct. 19, 1954 |
| Grapefruit juice, concentrated | Nov. 15, 1945 |
| Grapefruit and orange juice, blended | Oct. 19, 1954 |
| Grapefruit and orange for salad | August 7, 1950 |
| Grape juice | May 14, 1951 |
| Grapefruit juice for manufacturing | Mar. 20, 1957 |
| Hominy | Mar. 10, 1958 |
| *Lemon juice* | *July 1, 1941* |
| Mushrooms | Jan. 19, 1953 |
| Okra | July 8, 1957 |
| Olives, green | June 1, 1946 |
| Olives, ripe | Mar. 1, 1941 |
| Orange juice | Mar. 13, 1956 |
| Orange juice, concentrated | Dec. 12, 1953 |
| Orange juice, concentrated for manufacturing | Dec. 20, 1953 |
| Orange marmalade | June 22, 1951 |
| Onions | Nov. 2, 1957 |
| Peaches, freestone | July 22, 1957 |
| Peaches, yellow clingstone | July 13, 1957 |
| Pears | Dec. 1, 1951 |
| Peas | May 13, 1955 |
| Peas, field and black-eye | April 17, 1950 |
| Pickles, cucumber | April 30, 1954 |
| Pimientos | Aug. 16, 1955 |
| Pineapple | Mar. 16, 1957 |
| Pineapple juice | Mar. 16, 1957 |
| Plums | August 19, 1952 |
| Potatoes, white | Feb. 10, 1950 |
| Prunes, canned dried | Mar. 1, 1946 |
| Pumpkin (squash) | Mar. 9, 1956 |
| Tomatoes & okra | Dec. 24, 1957 |
| Sauerkraut | May 10, 1957 |
| Spinach | May 12, 1950 |
| Squash (Summer type) | May 15, 1958 |
| Succotash | Mar. 15, 1944 |
| Sweetpotatoes | July 9, 1951 |
| Tangerine juice | July 29, 1949 |
| Tangerine juice, concentrated for manufacturing | Oct. 31, 1955 |
| Tomatoes | August 1, 1946 |
| Tomato catsup | August 31, 1953 |
| Tomato juice | June 24, 1958 |
| Tomato paste | Sept. 15, 1944 |
| Tomato pulp | Jan. 1, 1945 |
| Tomato sauce | May 10, 1954 |
| Tomatoe & okra | Dec 24, 1957 |

## Dried

| | |
|---|---|
| Apples | Oct. 24, 1955 |
| Apples, dehydrated (low moisture) | Nov. 29, 1955 |
| Apricots | June 1, 1945 |
| Currants | Oct. 1, 1957 |
| Dates | August 26, 1955 |
| Figs | Dec. 27, 1955 |
| Grapefruit juice (dehydrated) | Mar. 19, 1956 |
| Orange juice (dehydrated) | Jan. 27, 1956 |
| Peaches | June 30, 1945 |
| Pears | June 30, 1945 |
| Prunes | Nov. 26, 1956 |
| Raisins (processed) | Oct. 1, 1957 |

## Frozen

| | |
|---|---|
| Apples | May 17, 1954 |
| Apricots | June 30, 1945 |
| (Grades for manufacturing July 1, 1946) | |
| Asparagus | April 18, 1952 |
| Beans, green and wax | August 25, 1954 |
| Beans, lima | April 16, 1957 |
| Berries (blackberries, boysenberries, dewberries, loganberries, youngberries, and other similar types) | Aug. 15, 1946 |
| Blueberries | May 7, 1955 |
| Broccoli | Aug. 1, 1950 |
| Brussels Sprouts | May 11, 1951 |
| Carrots, diced | Mar. 30, 1953 |
| Cauliflower | Nov. 12, 1951 |
| Cherries, red sour (tart) pitted | June 18, 1949 |
| Cherries, sweet | March 1, 1958 |
| Corn-on-the-cob | May 15, 1958 |
| Corn, whole kernel (or whole grain) | August 1, 1952 |
| Grape Juice concentrated sweetened | Nov. 1, 1957 |
| Grapefruit | Feb. 20, 1948 |
| Grapefruit juice, concentrated | Dec. 28, 1956 |
| Grapefruit juice and orange juice, concentrated, blended | Dec. 10, 1951 |
| Leafy greens | June 13, 1952 |
| Lemonade, frozen concentrate | Feb. 1, 1958 |
| Limeade, frozen concentrate | Nov. 2, 1956 |
| Okra | August 7, 1950 |
| Orange juice, concentrated | Dec. 1, 1955 |
| Peaches | June 30, 1945 |
| Grades for manufacturing | June 1, 1946 |
| Peas | Mar. 15, 1945 |
| Peas and carrots | Mar. 20, 1955 |
| Peas, field and black-eye | Oct. 15, 1951 |
| Peppers, sweet | July 29, 1957 |
| Pineapple | Jan. 25, 1949 |
| Plums | Mar. 6, 1956 |
| Potatoes, french fried | Nov. 20, 1954 |
| Raspberries | August 16, 1948 |
| Rhubarb | August 15, 1945 |
| Spinach | Oct. 26, 1951 |
| Squash (cooked) | Oct. 5, 1953 |
| Squash (summer type) | April 3, 1953 |
| Strawberries | Feb. 1, 1958 |
| Succotash | July 7, 1953 |
| Vegetables, mixed | May 24, 1954 |

## Sugar Products

| | |
|---|---|
| Honey, comb | August 1933 |
| Honey, extracted | April 16, 1951 |
| Maple sirup for reprocessing | Feb. 15, 1940 |
| Maple sirup, table | Feb. 15, 1940 |
| Molasses, sugarcane | August 11, 1952 |
| Sirup, refiners' | Jan. 5, 1952 |
| Sirup, sugarcane | April 16, 1957 |

## Miscellaneous Products

| | |
|---|---|
| Cherries, sulfured | June 12, 1951 |
| Olive oil | Mar. 22, 1948 |
| Olives, salt cured | Nov. 25, 1940 |
| Olives Sicilian style | Nov. 25, 1940 |
| Peanut butter | Sept. 1, 1942 |
| Potatoes, peeled white (fresh) | June 8, 1954 |
| Sauerkraut, bulk | May 27, 1935 |

**Any of the United States Standards for Grades listed may be secured upon request from the U. S. Department of Agriculture, Agricultural Marketing Service, Fruit and Vegetable Div., Processed Products Standardization and Inspection Branch, Washington 25, D. C.**

# Plant Food Requirements of Canning Crops

| Crop | Acre yield | Lbs. of plant food removed: Nitrogen | Phosphoric acid | Potash |
|---|---|---|---|---|
| Beans, lima | 1 ton | 55 | 12 | 26 |
| Forage | 4 tons | 40 | 12 | 87 |
| TOTAL | | 95 | 24 | 113 |
| Beans, snap | 2 tons | 148 | 5 | 10 |
| Forage | 8 tons | 48 | 2 | 45 |
| TOTAL | | 196 | 7 | 55 |
| Peas | 2 tons | 46 | 5 | 6 |
| Forage | 12 tons | 60 | 9 | 50 |
| TOTAL | | 106 | 14 | 56 |
| Peas, Blackeye | 2 tons | 40 | 8 | 18 |
| Forage | 10 tons | 50 | 10[2] | 140 |
| TOTAL | | 90 | 18 | 158 |
| Peppers | 2 tons | 6 | 10 | 6 |
| Plant | 3 tons | 18 | 17 | 13 |
| TOTAL | | 24 | 27 | 19 |
| Tomatoes | 15 tons | 93 | 24 | 130 |
| Plant | 3600 pounds | 68 | 27 | 166 |
| TOTAL | | 161 | 51 | 296 |
| Asparagus | 2 tons | 16 | 4 | 10 |
| Beets, Roots | 10 tons | 50 | 9 | 33 |
| Tops | 14 tons | 10 | 9 | 59 |
| TOTAL | | 60 | 18 | 92 |
| Carrots, Roots | 20 tons | 92 | 28 | 84 |
| Tops | 10 tons | 100 | 10 | 200 |
| TOTAL | | 192 | 38 | 284 |
| Onions | 10 tons | 46 | 11 | 30 |
| Tops | 5 tons | 30 | 6 | 55 |
| TOTAL | | 76 | 17 | 85 |
| Okra, Pods | 5 tons | 13 | 5 | 38 |
| Forage | 6¾ tons | 8 | 5 | 24 |
| TOTAL | | 21 | 10 | 62 |
| Parsnips, Roots | 10 tons | 44 | 16 | 37 |
| Tops | 5 tons | 42 | 15 | 11 |
| TOTAL | | 86 | 31 | 48 |
| Pumpkins | 10 tons | 32 | 8 | 40 |
| Turnips, Roots | 10 tons | 50 | 16 | 55 |
| Tops | 10 tons | 80 | 9 | 36 |
| TOTAL | | 130 | 25 | 91 |
| Turnips, Rutabaga | 10 tons | 40 | 11 | 34 |
| Forage | 12 tons | 60[2] | 19 | 65 |
| TOTAL | | 120 | 30 | 99 |
| Potatoes, Tubers | 400 bu | 80 | 11 | 120 |
| Tops | 10 tons | 120 | 7 | 140 |
| TOTAL | | 200 | 18 | 260 |
| Potatoes, Sweet | 10 tons | 5 | 5 | 24 |
| Apples | 400 bu | 20 | 7 | 30 |
| Leaves & Wood | | 10 | 3 | 5 |
| TOTAL | | 30 | 10 | 35 |
| Peaches | 500 bu | 30 | 15 | 55 |
| Leaves & Wood | | 55 | 10 | 45 |
| TOTAL | | 85 | 25 | 100 |
| Grapes | 4 tons | 10 | 6 | 20 |
| Leaves & Canes | | 15 | 4 | 15 |
| TOTAL | | 25 | 10 | 35 |
| Oranges | 600 boxes | 65 | 23 | 105 |
| Leaves & Wood | | 25 | 7 | 25 |
| TOTAL | | 90 | 30 | 130 |

Source: Research Mimeograph 3, 1949, Campbell Soup Company, and Reprint F3-40 from BETTER CROPS WITH PLANT FOOD, American Potash Institute, information furnished by National Fertilizer Association, Inc.

[1] Because of soil fixation (soil tie up) much larger quantities of plant food, especially phosphoric acid and potash, must be applied to deficient soils than that removed by the crop.
[2] Estimate based on similar crops.

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Division of Nutrition, Elmer M. Nelson

Division of Pharmaceutical Chemistry, Frank H. Wiley

Division of Pharmacology, Arnold J. Lehman, M. D.

**DISTRICT OFFICES**

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Baltimore 2: Rm. 800, United States Appraiser's Stores, Gay and Lombard Sts.; Richard E. Williams, chief.

Boston 10: Rm. 805, United States Appraiser's Stores, 408 Atlantic Ave., J. Kenneth Kirk, chief.

Buffalo 3: Rm. 415, Federal Bldg., South Division and Ellicott Sts.; Allen T. Retzlaff, chief.

Chicago 7: Rm. 1222, New Post Office Bldg., Van Buren and Canal Sts.; George T. Daughters, chief.

Cincinnati 2: Rm. 501, Post Office Bldg.; Samuel Alfend, chief.

Denver 2: Rm. 531, United States Customhouse; R. L. Horst, chief.

Kansas City 6: 323 United States Courthouse, 811 Grand Ave.; S. D. Fine, chief.

Los Angeles 15: Rm. 514, 1401 South Hope St.; Gordon R. Wood, chief.

Minneapolis 1: 210, Federal Office Bldg., Washington and Third Aves., South; M. P. Kerr, chief.

New Orleans 16: Rm. 224, United States Customhouse, 423 Canal St.; Edwin C. Boudreaux, chief.

New York 14: Rm. 1200, United States Appraiser's Stores, 201 Varick St.; C. A. Herrmann, chief.

Philadelphia 6: Rm. 1204, New Customhouse, Second and Chestnut Sts.; Robert C. Stanfill, chief

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Seattle 4: Rm. 501, Federal Office Bldg.; Kenneth E. Monfore, chief.

# PACK TRENDS

## Canned Vegetables

Source: National Canners Association
Basis 24/2's in thousands (000 omitted)

| | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 |
|---|---|---|---|---|---|---|---|---|---|---|
| Asparagus | 3,833 | 3,620 | 4,418 | 4,533 | 4,795 | 4,354 | 4,018 | 4,978 | 6,248 | 5,887 |
| Green Beans | 10,898 | 12,686 | 18,149 | 19,026 | 17,047 | 13,810 | 19,592 | 23,883 | 20,919 | 22,379 |
| Wax beans | 2,193 | 2,488 | 2,498 | 1,933 | 2,393 | 2,536 | 3,019 | 3,186 | 2,452 | 3,795 |
| Lima beans | 2,204 | 2,476 | 4,371 | 3,229 | 2,950 | 2,316 | 3,085 | 3,520 | 2,806 | 2,518 |
| Beets | 3,382 | 4,444 | 7,340 | 8,154 | 7,532 | 6,693 | 8,583 | 7,061 | 7,539 | 8,359 |
| Carrots | 976 | 3,064 | 1,790 | 1,869 | 2,177 | 2,775 | 2,747 | 2,096 | 1,833 | 2,388 |
| Sweet corn | 26,089 | 31,483 | 29,795 | 18,241 | 25,576 | 32,329 | 30,982 | 30,619 | 24,075 | 31,533 |
| Green peas | 33,119 | 23,356 | 23,468 | 29,081 | 33,916 | 26,509 | 28,037 | 23,951 | 27,376 | 33,857 |
| Pumpkin and squash | 3,387 | 1,761 | 1,077 | 2,246 | 4,395 | 5,408 | 2,983 | 2,134 | 4,204 | 3,327 |
| Sauerkraut[1] | 4,241 | 6,507 | 7,809 | 8,899 | 7,241 | 7,121 | 8,232 | 8,056 | 7,596 | (2) |
| Spinach | 3,909 | 5,011 | 6,703 | 5,570 | 7,648 | 6,114 | 5,407 | 3,979 | 6,005 | 6,346 |
| Sweet potatoes | 1,685 | 1,816 | 3,145 | 4,254 | 3,249 | 4,993 | 4,876 | 4,061 | 5,053 | 5,345 |
| Tomatoes | 27,709 | 24,393 | 21,537 | 21,108 | 31,770 | 27,981 | 22,334 | 21,827 | 24,727 | 21,686 |
| Tomato juice | 19,506 | 27,774 | 23,542 | 26,180 | 36,160 | 35,807 | 37,754 | 27,034 | 26,921 | 32,590 |
| Tomato puree | 5,871 | 3,711 | 4,071 | 4,044 | 7,737 | 4,684 | 3,643 | 3,159 | 4,287 | 4,527 |

1. Packing beginning year shown. 2. Pack of 1956-57 not yet compiled.

## Canned Fruits

Source: National Canners Association
Basis 24/2½ in thousands (000 omitted)

| | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 |
|---|---|---|---|---|---|---|---|---|---|---|
| Peaches | 1,552 | 3,876 | 4,884 | 3,117 | 2,355 | 2,706 | 4,333 | 3,300 | 3,603 | 3,375 |
| Pears | 3,350 | 5,915 | 8,255 | 5,496 | 5,532 | 6,983 | 9,378 | 8,284 | 9,454 | 8,855 |
| Pineapple[2] | 4,767 | 2,375 | 3,661 | 4,614 | 4,004 | 4,759 | 2,796 | 5,919 | 4,151 | 4,165 |
| Plums | 416 | 491 | 253 | 330 | 442 | 345 | 274 | 289 | 306 | 341 |
| Purple plums | 408 | 567 | 486 | 750 | 449 | 498 | 596 | 449 | 304 | 477 |
| Apples | 561 | 447 | 209 | 222 | 200 | 179 | 210 | 138 | 143 | 210 |
| Apple sauce | 28 | 30 | 28 | 27 | 41 | 39 | 38 | 37 | 58 | 53 |
| Apricots | 84 | 79 | 26 | 25 | 51 | 27 | 8 | 8 | 1 | 4 |
| Blackberries | 231 | 341 | 215 | 273 | 202 | 161 | 186 | 117 | 117 | 177 |
| Blueberries | 70 | 77 | 102 | 56 | 93 | 104 | 82 | 39 | 63 | 48 |
| Boysenberries[1] | 2,714 | 2,606 | 3,841 | 3,602 | 2,891 | 2,829 | 2,254 | 3,453 | 1,830 | 2,593 |
| Gooseberries | 839 | 1,678 | 741 | 900 | 1,295 | 1,059 | 953 | 1,377 | 698 | 969 |
| Loganberries | 1,302 | 1,795 | 2,483 | 2,671 | 2,464 | 2,812 | 2,961 | 3,111 | 3,120 | 2,976 |
| Raspberries | 581 | 279 | 494 | 705 | 782 | 480 | 525 | 637 | 627 | 506 |
| Strawberries | 9,902 | 6,269 | 7,475 | 9,003 | 7,489 | 8,228 | 9,074 | 9,809 | 11,033 | 10,638 |
| Red pitted cherries | 1,011 | 931 | 609 | 855 | 720 | 868 | 737 | 831 | 917 | 854 |
| Sweet cherries | 3,073 | 2,360 | 3,205 | 2,356 | 2,642 | 2,999 | 3,627 | 3,296 | 3,053 | (4) |
| Cranberry sauce[2] | 937 | 1,391 | 1,759 | 2,226 | 1,743 | 1,279 | 2,043 | 1,869 | 2,590 | 1,984 |
| Figs[3] | 17,381 | 19,134 | 16,605 | 22,803 | 19,334 | 21,100 | 18,481 | 22,538 | 27,897 | 23,877 |
| Fruit cocktail[3] | 3,993 | 5,904 | 6,370 | 6,647 | 6,550 | 5,808 | 7,775 | 8,345 | 8,881 | 8,568 |
| Fruit salad[3] | 10,420 | 10,416 | 11,314 | 12,182 | 14,614 | 13,408 | 13,147 | 14,719 | 14,554 | 13,495 |
| Grapefruit sections[2] | 65 | 155 | 96 | 121 | 126 | 111 | 113 | 59 | 137 | 99 |
| Olives[2] | 875 | 1,672 | 930 | 2,237 | 1,497 | 1,288 | 1,593 | 1,639 | 2,193 | 978 |

1. Includes youngberries. 2. Pack beginning year shown. 3. California only. 4. Pack of 1957-58 not yet completed.

## Canned Fish, Poultry, and Specialties

| | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 |
|---|---|---|---|---|---|---|---|---|---|---|
| Poultry Products[1] (millions of pounds) | 147 | 128 | 152 | 171 | 194 | 185 | 179 | 182 | 196 | 227 |
| Fish Products[2] (millions of pounds) | 782 | 855 | 965 | 801 | 815 | 792 | 868 | 845 | 975 | 987 |
| Baby Foods, strained[3] (thousands of dozens of various sized tins & jars) | | 94,163 | 101,606 | 92,961 | 105,059 | 117,675 | 123,067 | 119,249 | 118,850 | NA |
| Baby Foods, chopped[3] (thousands of dozens of various sized tins & jars) | | 27,932 | 28,636 | 26,680 | 29,092 | 38,745 | 37,491 | 38,199 | 41,907 | NA |
| Salad Dressing, Mayonnaise[4] (millions of gallons) | 74.0 | 76.7 | 81.4 | 82.6 | 86.7 | 88.7 | 90.8 | 93.9 | 96.4 | 99.2 |
| Catsup[3] (thousands of actual cases) | 16,897 | 10,900 | 14,793 | 24,015 | 19,652 | 19,116 | 18,565 | 22,948 | 23,118 | 17,296 |

See footnote page 91.

## Fruit Juices

(thousands of cases: Basis 24/2's)[5]

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Apple juice | 1,143 | 2,689 | 3,385 | 3,020 | 3,119 | 3,021 | 4,072 | 3,355 | 4,043 | 4,426 |
| Grapefruit juice | 14,317 | 12,213 | 18,293 | 9,235 | 11,641 | 15,951 | 11,991 | 13,766 | 14,229 | (6) |
| Orange juice | 19,262 | 19,456 | 22,498 | 20,936 | 18,871 | 18,622 | 18,096 | 16,606 | 17,639 | (6) |
| Tangerine juice | 985 | 1,489 | 1,158 | 456 | 748 | 800 | 428 | 555 | 715 | (6) |
| Lemon juice | 425 | 555 | 355 | 450 | 692 | 319 | 510 | 653 | 620 | (6) |
| Blended citrus juice | 10,829 | 7,395 | 9,436 | 6,640 | 6,127 | 6,528 | 5,107 | 5,388 | 5,298 | (6) |
| Pineapple juice | 11,539 | 11,967 | 13,699 | 12,227 | 16,928 | 16,375 | 15,999 | 16,222 | 16,667 | 12,511 |

1. Source: U. S. Department of Agriculture.
2. Source: Fish and Wildlife Service, U.S. Department of Interior.
3. Source: National Canners Association.
4. Source: Business and Defense Services Administration, U.S. Department of Commerce.
5. Pack beginning year shown.
6. Pack of 1958-58 not yet completed.

## Frozen Vegetables

Source: National Association of Frozen Food Packers.
Basis Pounds in Thousands (000 omitted)

| | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 |
|---|---|---|---|---|---|---|---|---|---|---|
| Asparagus | 18,312 | 18,422 | 22,309 | 23,562 | 25,460 | 32,945 | 25,780 | 28,669 | 37,674 | 31,201 |
| Beans, Green & Wax | 49,583 | 58,523 | 65,529 | 81,650 | 87,438 | 114,781 | 123,253 | 129,968 | 137,744 | 134,361 |
| Broccoli | 29,126 | 45,233 | 41,028 | 48,768 | 82,253 | 89,043 | 62,004 | 96,240 | 118,287 | 80,452 |
| Brussels Sprouts | 10,526 | 23,455 | 22,439 | 22,476 | 22,454 | 40,801 | 33,418 | 23,142 | 43,989 | 33,354 |
| Carrots | 15,393 | 12,751 | 13,338 | 10,573 | 22,269 | 29,332 | 27,494 | 34,339 | 51,010 | 34,237 |
| Cauliflower | 13,963 | 21,655 | 12,339 | 22,428 | 33,166 | 35,710 | 17,088 | 40,086 | 47,159 | 22,690 |
| Corn, Cut | 20,920 | 37,076 | 32,998 | 44,549 | 62,684 | 104,809 | 78,212 | 70,041 | 118,153 | 112,917 |
| Corn-on-Cob | 10,324 | 17,563 | 10,069 | 8,772 | 14,196 | 17,217 | 16,788 | 6,932 | 20,422 | 13,699 |
| Kale | 590 | 1,135 | 2,179 | 3,005 | 5,287 | 4,072 | 4,251 | 5,622 | 4,041 | 4,106 |
| Lima Beans, Baby | 31,663 | 44,665 | 33,960 | 44,147 | 52,405 | 64,390 | 60,726 | 58,232 | 67,978 | 60,136 |
| Lima Beans, Fordhook | 43,740 | 43,284 | 52,029 | 63,873 | 61,521 | 74,205 | 68,948 | 59,465 | 75,560 | 70,644 |
| Mixed Vegetables | 9,420 | 15,241 | 15,241 | 26,088 | 26,472 | 30,910 | 23,805 | 30,662 | 42,082 | 41,547 |
| Okra | 1,526 | 2,344 | 2,620 | 4,789 | 8,427 | 12,285 | 7,756 | 13,647 | 13,084 | 17,071 |
| Peas, Blackeye | 573 | 704 | 1,280 | 2,725 | 4,146 | 6,431 | 5,697 | 10,227 | 6,737 | 11,624 |
| Peas, Green | 118,977 | 113,273 | 152,275 | 195,541 | 203,726 | 226,664 | 206,854 | 231,216 | 359,661 | 295,823 |
| Peas and Carrots | 6,510 | 8,097 | 11,335 | 12,947 | 18,033 | 19,551 | 14,551 | 13,890 | 24,139 | 21,017 |
| Potato Products | | | | | | 70,691 | 85,256 | 128,889 | 189,685 | 219,860 |
| Pumpkin & Squash | 5,577 | 8,337 | 8,325 | 12,723 | 15,068 | 9,472 | 13,036 | 17,863 | 24,158 | 13,151 |
| Rhubarb | 2,629 | 4,212 | 6,164 | 5,803 | 5,684 | 8,349 | 6,751 | 5,573 | 7,448 | 2,862 |
| Spinach | 41,571 | 62,307 | 52,806 | 97,878 | 91,464 | 87,927 | 66,901 | 110,347 | 104,511 | 102,130 |
| Succotash | 6,879 | 8,290 | 6,659 | 11,913 | 11,769 | 14,190 | 9,364 | 7,219 | 12,421 | 10,037 |
| Turnip Greens | 970 | 1,476 | 2,738 | 4,571 | 5,386 | 5,272 | 7,497 | 9,495 | 10,345 | 10,873 |

## Frozen Fruits

Source: National Association of Frozen Food Packers
Basis Pounds in Thousands (000 omitted)

| | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 |
|---|---|---|---|---|---|---|---|---|---|---|
| Apples | 27,552 | 52,268 | 48,013 | 28,772 | 37,649 | 42,356 | 60,094 | 72,758 | 86,956 | 69,225 |
| Apricots | 2,477 | 2,086 | 7,802 | 9,869 | 4,155 | 3,962 | 5,404 | 12,257 | 4,594 | 8,289 |
| Cherries, Red Tart | 87,798 | 70,898 | 104,459 | 99,282 | 61,867 | 115,242 | 86,695 | 114,465 | 88,734 | 130,571 |
| Cherries, Sweet | 664 | 2,965 | 752 | 2,251 | 2,411 | 1,739 | 3,639 | 2,824 | 5,235 | 4,144 |
| Grapes & Pulp | 5,511 | 3,119 | 15,189 | 4,799 | 4,937 | 10,110 | 9,411 | 11,125 | 14,903 | 15,510 |
| Peaches | 13,598 | 23,235 | 25,791 | 32,380 | 35,454 | 32,171 | 36,380 | 50,635 | 45,481 | 44,462 |
| Prunes | 2,125 | 5,297 | 5,144 | 6,791 | 3,588 | 8,356 | 4,498 | 3,754 | 3,991 | 1,333 |
| Blackberries | 9,745 | 15,186 | 8,973 | 14,574 | 10,628 | 17,966 | 14,156 | 16,539 | 12,845 | 19,157 |
| Blueberries | 7,661 | 14,036 | 10,900 | 13,921 | 9,848 | 13,988 | 20,971 | 21,020 | 19,638 | 24,446 |
| Boysenberries | 8,832 | 14,089 | 9,443 | 9,309 | 9,683 | 9,706 | 12,741 | 16,563 | 18,140 | 13,354 |
| Currants | 3,880 | 2,541 | 1,276 | 1,505 | 2,943 | 3,794 | 2,285 | 1,951 | 2,533 | 1,687 |
| Gooseberries | 44 | 44 | 138 | 136 | 96 | 132 | 204 | 842 | 291 | 163 |
| Loganberries | 4,147 | 3,386 | 2,639 | 2,419 | 1,795 | 2,303 | 2,592 | 1,891 | 1,416 | 1,275 |
| Raspberries, Black | 4,519 | 6,155 | 10,939 | 9,559 | 9,003 | 8,975 | 8,298 | 8,253 | 7,751 | 15,122 |
| Raspberries, Red | 23,198 | 25,682 | 20,439 | 19,414 | 18,365 | 24,895 | 23,502 | 25,730 | 9,184 | 30,365 |
| Strawberries | 106,077 | 107,600 | 192,732 | 157,729 | 200,302 | 225,963 | 221,446 | 272,970 | 312,293 | 259,262 |

# CROP DATA

## Harvested Acreage, Yield, Production, Price and Value of 10 Major Vegetable Crops

Source: U.S. Department of Agriculture

### ASPARAGUS

| SEASONAL GROUP AND STATE | PRODUCTION | | | PRICE PER TON | | | VALUE | | |
|---|---|---|---|---|---|---|---|---|---|
| | Average 1949-55 | 1956 | 1957 | Average 1949-55 | 1956 | 1957 | Average 1949-55 | 1956 | 1957 |
| | Tons | | | Dollars | | | 1,000 dollars | | |
| **Early Spring:** | | | | | | | | | |
| South Carolina. | 30 | --- | --- | 147.00 | --- | --- | 4 | --- | --- |
| California..... | 55,950 | 60,600 | 56,600 | 208.00 | 209.00 | 168.00 | 11,779 | 12,665 | 9,509 |
| Group total... | 55,980 | 60,600 | 56,600 | 208.00 | 209.00 | 168.00 | 11,783 | 12,665 | 9,509 |
| **Mid-Spring:** | | | | | | | | | |
| Washington..... | 11,260 | 14,950 | 15,000 | 200.00 | 211.00 | 170.00 | 2,255 | 3,154 | 2,550 |
| Oregon..... | 310 | 430 | 420 | 190.00 | 206.00 | 157.00 | 60 | 89 | 66 |
| Group total... | 11,570 | 15,380 | 15,420 | 199.00 | 211.00 | 170.00 | 2,315 | 3,243 | 2,616 |
| **Late Spring:** | | | | | | | | | |
| New Jersey..... | 20,690 | 20,790 | 20,070 | 241.00 | 256.00 | 199.00 | 4,994 | 5,322 | 3,994 |
| Illinois..... | 6,830 | 6,950 | 6,500 | 203.00 | 217.00 | 208.00 | 1,376 | 1,508 | 1,352 |
| Michigan..... | 6,140 | 6,650 | 7,300 | 249.00 | 288.00 | 259.00 | 1,520 | 1,915 | 1,891 |
| Iowa..... | 630 | 530 | 670 | 166.00 | 200.00 | 172.00 | 102 | 106 | 115 |
| Delaware..... | 1,190 | 2,040 | 2,500 | 248.00 | 257.00 | 224.00 | 297 | 524 | 560 |
| Maryland..... | 950 | 1,540 | 2,180 | 240.00 | 254.00 | 228.00 | 228 | 391 | 497 |
| Other States 1/ | 1,750 | 2,990 | 3,220 | 253.00 | 277.00 | 257.00 | 451 | 829 | 829 |
| Group total... | 38,170 | 41,490 | 42,440 | 235.00 | 255.40 | 217.70 | 8,967 | 10,595 | 9,238 |
| United States... | 105,720 | 117,470 | 114,460 | 217.00 | 225.60 | 186.60 | 23,065 | 26,503 | 21,363 |

1/ New York, Pennsylvania, Ohio, Indiana, Wisconsin, Minnesota, Missouri, Nebraska, Virginia, Arkansas, and Idaho.

### BEANS, SNAP

| STATE | HARVESTED ACREAGE | | | YIELD PER ACRE | | | PRODUCTION | | | PRICE PER TON 1/ | | | VALUE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 |
| | Acres | | | Tons | | | Tons | | | Dollars | | | 1,000 dollars | | |
| Maine..... | 2,580 | 1,800 | 2,100 | 2.3 | 1.9 | 2.7 | 5,900 | 3,400 | 5,700 | 97.70 | 97.90 | 102.50 | 577 | 333 | 584 |
| New York..... | 26,640 | 33,400 | 37,300 | 1.6 | 2.0 | 1.8 | 44,200 | 66,800 | 67,100 | 121.70 | 125.00 | 111.60 | 5,393 | 8,350 | 7,488 |
| Pennsylvania.... | 4,450 | 5,100 | 6,100 | 1.9 | 2.4 | 1.9 | 8,500 | 12,200 | 11,600 | 112.50 | 121.80 | 126.30 | 975 | 1,486 | 1,465 |
| Michigan..... | 6,790 | 6,500 | 6,600 | 1.4 | 2.0 | 1.5 | 9,400 | 13,000 | 9,900 | 110.80 | 108.00 | 111.60 | 1,046 | 1,404 | 1,105 |
| Wisconsin..... | 12,410 | 16,600 | 19,300 | 1.5 | 1.7 | 1.5 | 18,600 | 28,200 | 29,000 | 112.30 | 105.10 | 106.40 | 2,094 | 2,964 | 3,086 |
| Missouri..... | 520 | --- | --- | 1.3 | --- | --- | 700 | --- | --- | 103.30 | --- | --- | 62 | --- | --- |
| Delaware..... | 2,020 | 3,100 | 2,900 | 1.4 | 1.3 | 1.1 | 2,800 | 4,000 | 3,200 | 93.50 | 101.40 | 96.70 | 262 | 406 | 309 |
| Maryland..... | 10,790 | 10,100 | 9,400 | 1.5 | 1.7 | 1.5 | 16,600 | 17,200 | 14,100 | 98.80 | 105.60 | 104.20 | 1,661 | 1,816 | 1,469 |
| Virginia..... | 3,800 | 3,500 | 3,800 | 1.5 | 1.2 | 1.5 | 5,800 | 4,200 | 5,700 | 104.60 | 123.90 | 98.10 | 616 | 520 | 559 |
| North Carolina.. | 2,050 | 3,300 | 3,600 | 1.6 | 2.0 | 2.5 | 3,400 | 6,600 | 9,000 | 119.30 | 132.50 | 126.00 | 414 | 874 | 1,134 |
| South Carolina.. | 1,370 | 900 | 900 | 1.0 | 1.0 | 1.2 | 1,400 | 900 | 1,100 | 95.80 | 146.00 | 105.00 | 128 | 131 | 116 |
| Florida 2/..... | 9,970 | 8,900 | 12,500 | 1.6 | 1.7 | 1.7 | 16,100 | 15,060 | 21,900 | 108.90 | 115.90 | 127.90 | 1,800 | 1,745 | 2,801 |
| Tennessee..... | 5,310 | 4,900 | 6,400 | 1.6 | 1.9 | 2.1 | 8,700 | 9,300 | 13,440 | 128.30 | 126.00 | 126.00 | 1,110 | 1,172 | 1,693 |
| Arkansas..... | 5,690 | 3,000 | 3,500 | 1.3 | 1.1 | 1.6 | 8,200 | 3,300 | 5,600 | 112.10 | 118.50 | 107.40 | 872 | 391 | 601 |
| Louisiana..... | 1,040 | 470 | 570 | .8 | .7 | .3 | 800 | 330 | 170 | 90.40 | 87.80 | 91.60 | 74 | 29 | 16 |
| Oklahoma..... | 3,000 | 3,000 | 2,600 | 1.0 | 1.2 | 1.7 | 3,300 | 3,600 | 4,400 | 115.40 | 96.30 | 95.00 | 371 | 347 | 418 |
| Texas..... | 7,160 | 8,000 | 7,500 | 1.4 | 1.2 | 1.1 | 10,400 | 9,600 | 8,200 | 82.20 | 82.00 | 85.00 | 854 | 787 | 697 |
| Colorado..... | 1,360 | 1,400 | 1,400 | 3.5 | 4.0 | 3.7 | 4,800 | 5,600 | 5,200 | 88.70 | 93.80 | 96.60 | 427 | 525 | 502 |
| Utah..... | 500 | 500 | 550 | 4.2 | 6.8 | 6.0 | 2,200 | 3,400 | 3,300 | 104.40 | 119.80 | 123.80 | 232 | 407 | 409 |
| Washington..... | 2,250 | 2,100 | 2,000 | 4.3 | 5.4 | 5.7 | 9,500 | 11,300 | 11,400 | 122.10 | 127.30 | 129.90 | 1,168 | 1,438 | 1,481 |
| Oregon..... | 6,910 | 10,600 | 10,800 | 7.5 | 7.3 | 8.1 | 52,300 | 77,400 | 87,500 | 128.20 | 128.20 | 131.80 | 6,718 | 9,923 | 11,532 |
| California..... | 2,120 | 3,000 | 3,000 | 6.2 | 8.3 | 8.0 | 13,700 | 24,900 | 24,000 | 114.20 | 126.60 | 127.20 | 1,611 | 3,152 | 3,053 |
| Other States 3/. | 6,900 | 7,640 | 8,820 | 1.8 | 2.4 | 2.0 | 12,100 | 18,340 | 17,440 | 116.90 | 113.50 | 108.50 | 1,426 | 2,082 | 1,892 |
| UNITED STATES... | 125,620 | 137,810 | 151,640 | 2.05 | 2.46 | 2.37 | 259,400 | 338,630 | 358,950 | 114.70 | 119.00 | 118.20 | 29,891 | 40,282 | 42,410 |
| For freezing 4/. | 5/33,060 | 32,000 | 33,280 | 5/ 2.36 | 2.59 | 2.56 | 5/77,920 | 82,970 | 85,110 | 5/123.40 | 126.90 | 123.20 | 5/ 9,636 | 10,529 | 10,484 |
| For canning and other processing 4/... | 5/111,130 | 105,810 | 118,360 | 5/ 2.23 | 2.42 | 2.31 | 5/248,150 | 255,660 | 273,840 | 5/112.80 | 116.40 | 116.60 | 5/28,049 | 29,753 | 31,926 |

1/ Seasonal average price received by growers. The season falls in the calendar year. 2/ Sum of estimates by seasonal groups. 3/ Alabama, Georgia, Idaho,, Illinois, Indiana, Iowa, Kentucky, Minnesota, Mississippi, Nebraska, New Hampshire, New Jersey, New Mexico, Ohio, Vermont, and Wyoming. 4/ Not shown by states to avoid individual disclosures. 5/ 1954-55 average. Estimates not available for prior years.

## BEANS, GREEN LIMA

| STATE | HARVESTED ACREAGE | | | YIELD PER ACRE | | | PRODUCTION | | | PRICE PER TON 1/ | | | VALUE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 |
| | Acres | | | Pounds (Shelled) | | | Tons (2,000 lb. shelled) | | | Dollars | | | 1,000 dollars | | |
| New York..... | 2,890 | 1,900 | 1,520 | 1,430 | 1,940 | 2,000 | 2,140 | 1,840 | 1,520 | 152.10 | 154.20 | 160.70 | 330 | 284 | 244 |
| Pennsylvania.... | 4,390 | 3,100 | 2,900 | 1,320 | 1,500 | 1,070 | 2,920 | 2,320 | 1,550 | 143.30 | 148.00 | 142.10 | 418 | 343 | 220 |
| Ohio..... | 760 | 600 | 600 | 910 | 890 | 1,400 | 340 | 270 | 420 | 104.70 | 112.70 | 101.40 | 36 | 30 | 43 |
| Michigan..... | 2,520 | 1,500 | 1,200 | 1,210 | 1,570 | 1,220 | 1,520 | 1,180 | 730 | 114.80 | 108.60 | 105.30 | 176 | 128 | 77 |
| Wisconsin..... | 6,280 | 6,300 | 5,300 | 1,480 | 2,100 | 2,060 | 4,780 | 6,620 | 5,460 | 133.60 | 159.70 | 125.90 | 645 | 1,057 | 687 |
| Delaware..... | 19,820 | 22,600 | 17,300 | 1,420 | 1,590 | 1,210 | 14,130 | 17,970 | 10,470 | 138.10 | 153.20 | 144.30 | 1,986 | 2,753 | 1,511 |
| Maryland..... | 4,500 | 3,800 | 3,000 | 1,270 | 1,770 | 1,220 | 2,920 | 3,360 | 1,830 | 128.40 | 134.00 | 129.60 | 385 | 450 | 237 |
| Virginia..... | 4,320 | 3,700 | 2,500 | 1,210 | 1,600 | 1,200 | 2,670 | 2,960 | 1,500 | 125.90 | 140.00 | 133.00 | 342 | 414 | 200 |
| Washington..... | 1,290 | 700 | 700 | 1,930 | 2,080 | 3,130 | 1,200 | 730 | 1,100 | 150.60 | 153.40 | 153.20 | 189 | 112 | 169 |
| California..... | 21,400 | 28,100 | 29,900 | 2,630 | 3,150 | 3,050 | 28,680 | 44,260 | 45,600 | 156.30 | 156.00 | 146.70 | 4,476 | 6,905 | 6,690 |
| Other States 2/. | 29,621 | 28,140 | 25,750 | 1,510 | 1,883 | 1,745 | 22,440 | 26,500 | 22,470 | 144.60 | 141.20 | 136.10 | 3,261 | 3,741 | 3,057 |
| UNITED STATES... | 97,800 | 100,440 | 90,670 | 1,690 | 2,151 | 2,044 | 83,740 | 108,010 | 92,650 | 145.30 | 150.10 | 141.80 | 12,244 | 16,217 | 13,135 |
| For freezing 3/. | 4/65,470 | 65,300 | 61,500 | 4/2,070 | 2,328 | 2,203 | 4/67,660 | 76,000 | 67,750 | 4/151.50 | 152.20 | 146.10 | 4/10,267 | 11,565 | 9,901 |
| For canning and other processing 3/... | 4/39,500 | 35,140 | 29,170 | 4/1,511 | 1,822 | 1,707 | 4/29,910 | 32,010 | 24,900 | 4/141.30 | 145.30 | 129.90 | 4/ 4,232 | 4,652 | 3,234 |

1/ Seasonal average price received by growers. The season falls in the calendar year. 2/ Arkansas, Colorado, Idaho, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, New Jersey, Oklahoma, Oregon, Tennessee, and Utah. 3/ Not shown by states to avoid disclosure of individual operations. 4/ 1952-55 average. Estimates not available prior to 1952.

## BEETS

| STATE | HARVESTED ACREAGE | | | YIELD PER ACRE | | | PRODUCTION | | | PRICE PER TON 1/ | | | VALUE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 |
| | Acres | | | Tons (2,000 lb.) | | | Tons (2,000 lb.) | | | Dollars | | | 1,000 dollars | | |
| New York..... | 3,850 | 4,600 | 4,400 | 9.8 | 11.0 | 11.8 | 38,500 | 50,600 | 51,900 | 22.20 | 20.30 | 20.60 | 830 | 1,027 | 1,069 |
| Michigan..... | 940 | 700 | 700 | 7.6 | 7.3 | 8.3 | 7,000 | 5,100 | 5,800 | 18.40 | 17.10 | 18.40 | 128 | 87 | 107 |
| Wisconsin..... | 6,610 | 8,100 | 6,800 | 8.1 | 9.6 | 8.4 | 53,800 | 77,800 | 57,100 | 18.40 | 16.40 | 16.80 | 996 | 1,276 | 959 |
| Oregon..... | 1,500 | 1,500 | 1,600 | 12.0 | 16.5 | 14.9 | 17,900 | 24,800 | 23,800 | 25.20 | 23.60 | 26.00 | 452 | 585 | 619 |
| Other States 2/. | 3,620 | 5,820 | 3,440 | 6.0 | 6.6 | 6.2 | 21,900 | 38,600 | 21,300 | 21.10 | 20.90 | 20.50 | 461 | 807 | 437 |
| UNITED STATES... | 16,520 | 20,720 | 16,940 | 8.34 | 9.50 | 9.44 | 139,100 | 196,900 | 159,900 | 20.70 | 19.20 | 20.00 | 2,869 | 3,782 | 3,191 |

1/ Seasonal average price received by growers. The season falls in the calendar year. 2/ California, Colorado, Delaware, Illinois, Indiana, Louisiana, Maine, Maryland, Minnesota, New Jersey, Ohio, Pennsylvania, Tennessee, Texas, Utah, and Washington.

## SWEET CORN

| STATE | HARVESTED ACREAGE | | | YIELD PER ACRE 1/ | | | PRODUCTION 1/ | | | PRICE PER TON 2/ | | | VALUE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 |
| | Acres | | | Tons (2,000 lb.) | | | Tons (2,000 lb.) | | | Dollars | | | 1,000 dollars | | |
| Maine..... | 8,480 | 3,100 | 4,800 | 3.2 | 3.4 | 4.8 | 26,700 | 10,500 | 23,000 | 27.00 | 23.50 | 24.70 | 748 | 247 | 568 |
| New Hampshire... | 410 | 390 | 490 | 3.6 | 2.3 | 5.1 | 1,500 | 900 | 2,500 | 27.60 | 24.80 | 28.00 | 42 | 22 | 70 |
| Vermont..... | 710 | 290 | 430 | 2.9 | 3.2 | 3.9 | 2,000 | 900 | 1,700 | 23.10 | 22.50 | 23.40 | 47 | 20 | 40 |
| New York..... | 23,990 | 18,800 | 20,100 | 2.8 | 3.1 | 3.8 | 65,700 | 58,300 | 76,400 | 21.90 | 22.00 | 21.90 | 1,452 | 1,283 | 1,673 |
| Pennsylvania.... | 11,700 | 13,200 | 11,500 | 2.3 | 3.4 | 1.9 | 26,400 | 44,900 | 21,800 | 24.30 | 25.90 | 23.00 | 640 | 1,163 | 501 |
| Ohio..... | 15,070 | 7,400 | 6,200 | 2.6 | 2.7 | 2.6 | 37,400 | 20,000 | 16,100 | 18.90 | 16.20 | 17.20 | 721 | 324 | 277 |
| Indiana..... | 30,030 | 16,000 | 17,800 | 1.9 | 2.5 | 2.4 | 56,700 | 40,000 | 42,700 | 20.50 | 17.30 | 17.20 | 1,179 | 692 | 734 |
| Illinois..... | 63,750 | 62,700 | 60,500 | 2.9 | 4.0 | 3.5 | 185,100 | 250,800 | 211,800 | 22.20 | 21.30 | 20.80 | 4,140 | 5,342 | 4,405 |
| Wisconsin..... | 97,220 | 109,800 | 116,000 | 2.6 | 3.7 | 3.0 | 257,200 | 406,300 | 348,000 | 19.80 | 19.30 | 18.60 | 5,167 | 7,842 | 6,473 |
| Minnesota..... | 80,850 | 97,300 | 94,000 | 3.2 | 4.0 | 3.6 | 254,600 | 389,200 | 338,400 | 18.90 | 17.80 | 18.20 | 4,824 | 6,928 | 6,159 |
| Iowa..... | 27,470 | 20,700 | 18,900 | 2.7 | 3.5 | 3.4 | 72,700 | 72,400 | 64,300 | 20.30 | 18.30 | 18.60 | 1,488 | 1,325 | 1,196 |
| Delaware..... | 4,540 | 5,900 | 4,800 | 2.6 | 3.2 | 1.9 | 11,900 | 18,900 | 9,100 | 20.40 | 23.60 | 20.10 | 244 | 446 | 183 |
| Maryland..... | 35,370 | 31,200 | 25,000 | 2.3 | 3.1 | 1.7 | 80,700 | 96,700 | 42,500 | 20.70 | 20.90 | 19.60 | 1,674 | 2,021 | 833 |
| Idaho..... | 9,160 | 9,300 | 10,900 | 4.3 | 5.9 | 5.6 | 39,800 | 54,900 | 61,000 | 22.70 | 21.10 | 20.70 | 922 | 1,158 | 1,263 |
| Utah..... | 5,380 | 6,200 | 6,400 | 4.2 | 4.7 | 4.6 | 22,700 | 29,100 | 29,400 | 23.00 | 21.60 | 21.50 | 526 | 629 | 632 |
| Washington..... | 13,170 | 15,700 | 15,800 | 4.5 | 5.0 | 5.6 | 59,400 | 78,500 | 88,500 | 23.60 | 22.10 | 21.70 | 1,434 | 1,735 | 1,920 |
| Oregon..... | 12,480 | 17,000 | 15,100 | 4.1 | 5.2 | 5.4 | 51,900 | 88,400 | 81,500 | 30.40 | 27.80 | 29.30 | 1,581 | 2,458 | 2,388 |
| Other States 3/. | 13,740 | 14,050 | 10,240 | 2.6 | 3.5 | 3.2 | 35,400 | 49,300 | 32,800 | 21.40 | 22.80 | 22.00 | 768 | 1,125 | 720 |
| UNITED STATES | 453,510 | 449,030 | 438,960 | 2.85 | 3.81 | 3.40 | 1,287,800 | 1,710,000 | 1,491,500 | 21.30 | 20.30 | 20.10 | 27,598 | 34,760 | 30,035 |
| For freezing 4/. | 5/ 60,890 | 64,180 | 64,140 | 5/ 3.39 | 3.91 | 3.87 | 5/ 206,900 | 251,210 | 248,020 | 5/23.10 | 23.10 | 22.80 | 5/ 4,845 | 5,791 | 5,652 |
| For canning and other processing 4/... | 5/387,800 | 384,850 | 374,820 | 5/ 3.10 | 3.79 | 3.32 | 5/1,185,410 | 1,458,790 | 1,243,480 | 5/20.80 | 19.90 | 19.60 | 5/24,854 | 28,969 | 24,383 |

# CROP DATA

## PEAS, GREEN

| STATE | HARVESTED ACREAGE | | | YIELD PER ACRE | | | PRODUCTION | | | PRICE PER TON 1/ | | | VALUE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 |
| | Acres | | | Pounds (shelled) | | | Tons (2,000 lb. shelled) | | | Dollars | | | 1,000 dollars | | |
| Maine | 7,500 | 7,850 | 7,100 | 1,700 | 2,810 | 2,920 | 6,470 | 11,030 | 10,370 | 90.80 | 95.50 | 93.00 | 589 | 1,053 | 964 |
| New York | 26,140 | 14,900 | 15,500 | 1,720 | 1,740 | 2,580 | 23,000 | 12,960 | 20,000 | 94.60 | 104.80 | 99.30 | 2,153 | 1,358 | 1,986 |
| Pennsylvania | 13,700 | 11,800 | 10,500 | 2,350 | 2,010 | 2,000 | 16,200 | 11,860 | 10,500 | 95.90 | 96.50 | 121.00 | 1,547 | 1,144 | 1,270 |
| Ohio | 2,720 | 1,100 | 1,250 | 1,570 | 1,630 | 1,320 | 2,180 | 900 | 820 | 85.60 | 84.90 | 116.70 | 183 | 76 | 96 |
| Indiana | 3,530 | 2,700 | 2,300 | 1,660 | 1,810 | 1,450 | 2,950 | 2,440 | 1,670 | 86.10 | 91.20 | 91.20 | 253 | 223 | 152 |
| Illinois | 23,990 | 30,300 | 30,300 | 2,200 | 2,050 | 2,760 | 26,350 | 31,060 | 41,810 | 99.90 | 117.20 | 108.40 | 2,640 | 3,640 | 4,532 |
| Michigan | 6,560 | 4,400 | 5,500 | 1,560 | 2,000 | 2,170 | 5,160 | 4,400 | 5,970 | 90.60 | 79.00 | 81.40 | 458 | 348 | 486 |
| Wisconsin | 125,900 | 128,000 | 131,600 | 2,040 | 1,980 | 2,480 | 128,470 | 126,720 | 163,180 | 85.30 | 86.60 | 83.90 | 10,925 | 10,974 | 13,691 |
| Minnesota | 51,000 | 59,300 | 54,800 | 1,810 | 1,710 | 2,470 | 46,060 | 50,700 | 67,680 | 95.70 | 100.80 | 92.30 | 4,417 | 5,111 | 6,247 |
| Delaware | 2,320 | 5,400 | 6,000 | 2,080 | 2,760 | 1,990 | 2,560 | 7,450 | 5,970 | 98.50 | 115.20 | 114.90 | 259 | 858 | 686 |
| Maryland | 8,920 | 10,500 | 10,400 | 2,260 | 2,350 | 1,920 | 10,060 | 12,340 | 9,980 | 87.70 | 92.90 | 92.80 | 889 | 1,146 | 926 |
| Virginia | 2,220 | 2,300 | 2,400 | 1,650 | 2,200 | 1,060 | 1,800 | 2,530 | 1,270 | 89.80 | 106.00 | 98.00 | 162 | 268 | 124 |
| Idaho | 9,410 | 15,200 | 10,400 | 2,250 | 2,580 | 2,140 | 10,460 | 19,610 | 11,130 | 88.20 | 90.30 | 87.40 | 927 | 1,771 | 973 |
| Colorado | 3,120 | 1,800 | 2,000 | 1,840 | 1,960 | 2,990 | 2,910 | 1,760 | 2,990 | 79.00 | 78.10 | 92.10 | 224 | 137 | 275 |
| Utah | 9,410 | 6,500 | 6,500 | 2,650 | 2,680 | 3,440 | 12,720 | 8,710 | 11,180 | 85.20 | 89.90 | 85.00 | 1,075 | 783 | 950 |
| Washington | 58,380 | 82,600 | 74,400 | 2,240 | 2,990 | 2,660 | 65,640 | 123,490 | 98,950 | 87.90 | 90.60 | 86.10 | 5,753 | 11,188 | 8,520 |
| Oregon | 52,420 | 64,000 | 63,900 | 1,950 | 2,600 | 2,230 | 50,570 | 83,200 | 71,250 | 85.40 | 85.40 | 86.20 | 4,310 | 7,105 | 6,142 |
| California | 7,750 | 13,200 | 8,800 | 2,360 | 3,080 | 3,080 | 9,520 | 20,330 | 13,550 | 74.90 | 79.70 | 72.90 | 704 | 1,620 | 988 |
| Other States 2/ | 12,260 | 12,170 | 10,140 | 2,120 | 2,279 | 2,292 | 12,260 | 13,870 | 11,620 | 100.20 | 117.20 | 105.85 | 1,217 | 1,625 | 1,230 |
| UNITED STATES | 427,260 | 474,020 | 453,790 | 2,030 | 2,301 | 2,468 | 435,340 | 545,360 | 559,890 | 88.90 | 92.50 | 89.70 | 38,683 | 50,428 | 50,238 |
| For freezing 3/ | 101,930 | 149,190 | 125,450 | 2,005 | 2,670 | 2,530 | 102,940 | 199,490 | 158,830 | 93.50 | 97.10 | 91.10 | 9,584 | 19,363 | 14,476 |
| For canning and other processing 3/ | 325,330 | 324,830 | 328,340 | 2,036 | 2,130 | 2,440 | 332,400 | 345,870 | 401,060 | 87.75 | 89.80 | 89.20 | 29,099 | 31,065 | 35,762 |

1/ Season average price received by growers. The season falls in the calendar year. 2/ Arkansas, Iowa, Kansas, Missouri, Montana, Nebraska, New Jersey, Oklahoma, Tennessee, West Virginia, and Wyoming. 3/ Not shown by states to avoid disclosures of individual operations.

## TOMATOES

| STATE | HARVESTED ACREAGE | | | YIELD PER ACRE | | | PRODUCTION | | | PRICE PER TON 1/ | | | VALUE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 | Average 1946-55 | 1956 | 1957 |
| | Acres | | | Tons (2,000 lb.) | | | Tons (2,000 lb.) | | | Dollars | | | 1,000 dollars | | |
| New York | 19,470 | 16,300 | 12,300 | 8.6 | 6.3 | 8.6 | 163,600 | 102,700 | 105,800 | 29.70 | 32.60 | 35.70 | 4,890 | 3,348 | 3,777 |
| New Jersey | 29,350 | 24,300 | 21,000 | 7.5 | 12.6 | 8.2 | 220,100 | 306,200 | 172,200 | 33.30 | 35.00 | 35.80 | 7,379 | 10,717 | 6,165 |
| Pennsylvania | 24,020 | 22,100 | 18,500 | 6.9 | 9.2 | 6.1 | 162,100 | 203,300 | 112,800 | 31.70 | 33.90 | 34.10 | 5,116 | 6,892 | 3,846 |
| Ohio | 22,470 | 19,800 | 19,900 | 9.0 | 11.4 | 9.0 | 190,000 | 225,700 | 179,100 | 26.40 | 27.50 | 28.10 | 5,056 | 6,207 | 5,033 |
| Indiana | 49,670 | 32,000 | 27,600 | 6.8 | 10.9 | 7.5 | 319,200 | 348,800 | 207,000 | 26.80 | 26.90 | 27.60 | 8,674 | 9,383 | 5,713 |
| Illinois | 10,990 | 10,000 | 9,000 | 8.3 | 14.1 | 10.8 | 90,200 | 141,000 | 97,200 | 27.90 | 31.00 | 31.10 | 2,554 | 4,371 | 3,023 |
| Michigan | 7,380 | 7,500 | 8,200 | 7.8 | 9.3 | 9.1 | 57,400 | 69,800 | 74,600 | 26.00 | 27.70 | 28.50 | 1,504 | 1,933 | 2,126 |
| Wisconsin | 1,180 | 1,000 | 600 | 7.5 | 9.0 | 8.8 | 8,400 | 9,000 | 5,300 | 26.90 | 23.90 | 30.60 | 227 | 215 | 162 |
| Iowa | 1,650 | 1,700 | 1,600 | 6.1 | 8.9 | 6.7 | 9,900 | 15,100 | 10,700 | 26.40 | 28.70 | 28.90 | 263 | 433 | 309 |
| Missouri | 4,920 | 1,200 | 1,600 | 2.4 | 2.7 | 1.7 | 12,200 | 3,200 | 2,700 | 30.50 | 30.60 | 31.20 | 401 | 98 | 84 |
| Delaware | 5,440 | 3,600 | 3,400 | 6.5 | 12.0 | 8.7 | 33,500 | 43,200 | 29,600 | 36.30 | 33.80 | 34.20 | 1,207 | 1,460 | 1,012 |
| Maryland | 26,840 | 10,400 | 9,900 | 6.2 | 10.0 | 5.3 | 156,400 | 104,000 | 52,500 | 35.40 | 33.60 | 34.60 | 5,483 | 3,494 | 1,816 |
| Virginia | 17,580 | 14,000 | 10,100 | 4.0 | 4.2 | 3.8 | 70,300 | 58,800 | 38,400 | 31.20 | 33.50 | 33.90 | 2,217 | 1,970 | 1,302 |
| South Carolina | 1,700 | 1,400 | 1,800 | 1.8 | 2.5 | 2.0 | 3,000 | 3,500 | 3,600 | 31.00 | 30.00 | 30.00 | 91 | 105 | 108 |
| Florida 2/ | 5,380 | 9,100 | 7,600 | 4.6 | 5.5 | 5.6 | 26,700 | 49,800 | 42,400 | 27.00 | 25.00 | 24.70 | 703 | 1,246 | 1,046 |
| Kentucky | 2,150 | 1,200 | 1,300 | 3.3 | 4.1 | 3.7 | 6,800 | 4,900 | 4,800 | 26.70 | 27.20 | 27.50 | 184 | 133 | 132 |
| Tennessee | 2,330 | 400 | 300 | 2.6 | 2.0 | 2.3 | 6,500 | 800 | 700 | 28.90 | 27.20 | 23.30 | 180 | 22 | 16 |
| Arkansas | 6,980 | 3,200 | 1,800 | 2.5 | 2.6 | 3.0 | 17,200 | 8,300 | 5,400 | 31.30 | 33.20 | 34.50 | 550 | 276 | 186 |
| Oklahoma | 1,120 | 200 | 200 | 2.0 | 2.5 | 3.0 | 2,500 | 500 | 600 | 30.20 | 32.50 | 34.50 | 76 | 16 | 21 |
| Texas | 20,860 | 12,000 | 9,500 | 2.4 | 2.6 | 3.0 | 51,800 | 31,200 | 28,500 | 25.00 | 20.00 | 24.00 | 1,243 | 624 | 684 |
| Colorado | 3,300 | 3,400 | 2,600 | 7.5 | 10.9 | 9.0 | 24,400 | 37,100 | 23,400 | 24.10 | 23.60 | 23.40 | 591 | 876 | 548 |
| Utah | 6,810 | 5,900 | 5,900 | 10.9 | 14.4 | 12.0 | 74,100 | 85,000 | 70,800 | 23.60 | 22.10 | 23.30 | 1,769 | 1,878 | 1,650 |
| California | 105,590 | 151,500 | 123,000 | 13.9 | 18.3 | 16.3 | 1,444,800 | 2,772,400 | 2,004,900 | 25.20 | 22.70 | 22.00 | 36,864 | 62,933 | 44,108 |
| Other States 3/ | 2,740 | 2,680 | 2,520 | 4.3 | 5.2 | 5.9 | 11,700 | 14,000 | 14,800 | 28.10 | 28.00 | 25.00 | 320 | 392 | 370 |
| UNITED STATES | 379,920 | 354,880 | 300,220 | 8.6 | 13.1 | 11.0 | 3,162,700 | 4,638,300 | 3,287,800 | 27.30 | 25.70 | 25.30 | 87,543 | 119,022 | 83,237 |

1/ Season average price received by growers. The season falls in the calendar year. 2/ Sum of estimates by seasonal groups. 3/ Alabama, Arizona, Connecticut, Idaho, Kansas, Louisiana, Minnesota, Mississippi, Nebraska, New Mexico, North Carolina, Oregon, Washington, and West Virginia.

### Footnotes: Sweet Corn

1/ Tonnage in husk. 2/ Season average price received by growers. The season falls in the calendar year. 3/ Arkansas, California, Colorado, Louisiana, Michigan, Montana, Nebraska, New Jersey, Oklahoma, South Dakota, Tennessee, Texas, Virginia, and Wyoming. 4/ Not shown by states to avoid disclosure of individual operations. 5/ 1953-55. Estimates not available prior to 1953.

# EQUIPMENT GUIDE

## Food Plant Pumps

One of the major factors in developing automation in the food plant is the availability of specialized pumps that handle fluids of all types and that can be controlled with precision.

Pumps should be installed by an experienced person familiar with pumps generally and food plant problems in particular. But before the installation is made, certain decisions should be made on the characteristics of the pump desired.

The capacity of the pump should be determined by the requirements of the operation.

The head should be figured from the formula:

Static Suction Lift
Static Discharge Head
Pressure at Discharge
Friction Loss

TOTAL HEAD

These measurements are expressed in feet. Static suction is vertical distance from pump to liquid level, static discharge is vertical distance from pump to discharge. Friction loss is figured on the basis of amount of resistance in horizontal pipe or bend that equals a foot of pipe vertically.

| Gallons per minute \ Pipe Size | ½ | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| .5 | .6 | | | | |
| 2 | 7.6 | .6 | | | |
| 4 | 27.3 | 2.1 | | | |
| 10 | | 11.7 | | | |
| 20 | | | 1.6 | | |
| 30 | | | 3.3 | | |
| 50 | | | 8.5 | 1.2 | |
| 100 | | | | 4.5 | 1.2 |
| 200 | | | | 16.1 | 4.3 |

**Table shows friction loss computed in head feet per 100 feet for typical gallon rates in various pipe sizes.**

### Pumps for Special Performance in Food Plants

| Class | Purpose | Characteristics |
|---|---|---|
| Centrifugal | Moving product through pipeline. Hydro pump for cut beans, asparagus, etc. Movement of water in flume. | High gallonage, relatively inexpensive, capably of handling solids in water. |
| Rotary | Movement of viscous liquids at rates controllable with precision. | Low gallonage, medium head, delivers regular volume despite variations in pressure at discharge end. |
| Reciprocating | High pressure spray washing of fruits and vegetables. | High pressure, operates best with clean, cold water |
| Sanitary | Movement of food products, which may be viscous or of a corrosive nature, without danger of contamination. | May be of either the general centrifugal or rotary types. |
| Industrial | Adapted to other than food uses, including sewage and waste water removal, spray irrigation, boiler. | Any of three major classes. |

| Pipe Size (in.) | ⅛ | ¼ | ⅜ | ½ | ¾ | 1 |
|---|---|---|---|---|---|---|
| Gallons Per Minute | .1-.4 | .4-.8 | .8-1.5 | 1-3 | 2-6 | 4-12 |

| Pipe Size (in.) | 1¼ | 1½ | 2 | 2½ | 3 | 4 |
|---|---|---|---|---|---|---|
| Gallons Per Minute | 8-20 | 12-30 | 20-55 | 35-90 | 60-150 | 120-300 |

**Pipe sizes are determined by efficiency and cost of pumping a given gallonage at a given pressure. These are the conventional ranges used.**

| Pipe Size (in.) | Regular 90° ell | Long Radius Flanged ell | Gate Valve Open | Globe Valve Open |
|---|---|---|---|---|
| 1 | 2.7 | 1.7 | .6 | 27 |
| 2 | 5.5 | 3.5 | 1.2 | 57 |
| 3 | 8.1 | 5.1 | 1.7 | 85 |
| 4 | 11.0 | 7.0 | 2.3 | 110 |

**Resistance of fittings is expressed in equivalent number of head feet.**

## High Pressure Spray

The effectiveness of the use of water in washing food products prior to inspection is increased many times by the use of a high pressure spray system. A spray system is often combined with a soaking wash and even a mechanical cleaning.

Within the spray pattern itself, nozzles have been fitted for flooding, rinsing, cutting. Each pattern can be set for overlap and coverage.

Water, usually supplied by reciprocating pump, has at the discharge 20 to 60 psi.

### Capacities in GPM of Various Size Nozzle Orifices

| in. \ psi | 5 | 10 | 15 | 20 | 30 | 40 | 60 | 80 |
|---|---|---|---|---|---|---|---|---|
| 1/16 | .21 | .30 | .37 | .42 | .52 | .60 | .73 | .85 |
| 5/64 | .35 | .50 | .67 | .71 | .87 | 1.0 | 1.2 | 1.4 |
| 1/8 | .71 | 1.0 | 1.2 | 1.4 | 1.7 | 2.0 | 2.5 | 2.8 |
| 9/64 | 1.1 | 1.5 | 1.8 | 2.1 | 2.6 | 3.0 | 3.7 | 4.2 |
| 10/64 | 1.4 | 2.0 | 2.5 | 2.8 | 3.5 | 4.0 | 4.9 | 5.7 |
| 11/64 | 1.8 | 2.5 | 3.1 | 3.5 | 4.3 | 5.0 | 6.1 | 7.1 |
| 3/16 | 2.1 | 3.0 | 3.7 | 4.2 | 5.2 | 6.0 | 7.3 | 8.5 |
| 13/64 | 2.5 | 3.5 | 4.3 | 4.9 | 6.1 | 7.0 | 8.6 | 9.9 |
| 1/4 | 3.5 | 5.0 | 6.1 | 7.1 | 8.6 | 10.0 | 12.2 | 14.1 |
| 17/64 | 4.2 | 6.0 | 7.3 | 8.5 | 10.4 | 12.0 | 14.7 | 17.0 |
| 19/64 | 5.3 | 7.5 | 9.2 | 10.6 | 13.0 | 15.0 | 18.4 | 21.2 |
| 22/64 | 7.1 | 10.0 | 12.2 | 14.1 | 17.3 | 20.0 | 24.5 | 28.3 |
| 3/8 | 8.8 | 12.5 | 15.3 | 17.7 | 21.6 | 25.0 | 30.6 | 35.3 |

# EQUIPMENT GUIDE

## Conveyors

Canning and freezing plants are organized around the lines of flow of the product being prepared. The original planning of these lines must come before technical questions on power, speed, weight of product per hour, etc. Conveyor systems are the heart of these lines.

The planning can be approached from three separate points.

1. Movement. Distance and direction a product should be moved may be important (elevating incoming peas to dry cleaner) or an unimportant point (holding conveyor after hot fill, before cooling). Operation may be divided into two steps: vertical and horizontal conveying.

2. Mechanical effects: Depending on the nature of the product, the mechanical effects on the conveying mechanism must be considered. Not only bruising, or crushing in handling, but the rolling, shaking action in inspecting or washing.

3. Operation. In feeding, cleaning, trimming, sorting or any other specific operation in a food plant, there are problems in the selection and arrangement of conveyors that must be considered in relation to the human or mechanical requirements of that operation.

### Types of Power Conveyors Used in Food Plants

| | |
|---|---|
| Belt | Relatively inexpensive, versatile conveyor used for inspecting, trimming; sorting most small size vegetables and berries and many larger size products. |
| Bucket | Used for vertical lifts of small size products. Provides even feed from receiving or holding bin. |
| Steel Mat | Used for large size products, particularly in conjunction with scalding and washing operations. Also, tight mesh is used for moving glass containers. |
| Vibrating | Provides even feed, rotation or movement of small product for inspection purposes. Speed is adjustable within limits. |
| Flight | Elevator used for moving product short distances from receiving or holding bin. Used in conjunction with washing operation. |
| Screw | Limited use in canning and freezing fields. Some use in automatic supply of granular material, also in conjunction with timed cooking operation. |
| Roller | Spinning action desireable on inspection and washing large size product. |
| Flat top chain | Specialized conveyor used for moving, glass or tin containers. Used in conjunction with exhausting, pasturizing, unscrambling operations. |

### HP for Belt Conveyor

Belt width in inches

| Length in feet | 18 | 24 | 36 |
|---|---|---|---|
| 20 | .02 | .04 | .07 |
| 40 | .03 | .09 | .14 |
| 60 | .10 | .14 | .22 |
| 80 | .13 | .18 | .28 |

**Actual power requirements of average load on straight belt conveyor is only one consideration in determining size of motor. Power requirements in chart were made on basis of steel pulleys, product weight of 4 lb. per square ft., belt speed of 20 ft. per min.**

### RPM's of Drive Pulley

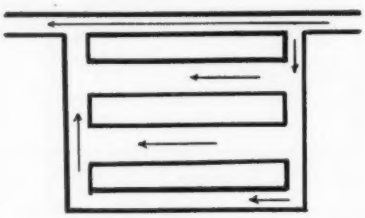
Diameter in inches of drive pulley

| Belt Speed: Feet Per Minute | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|
| 18 | 22 | 17 | 13 | 11 | 10 | 18 |
| 19 | 24 | 18 | 14 | 12 | 10 | 9 |
| 20 | 25 | 19 | 15 | 12 | 9 | 9 |
| 21 | 26 | 20 | 16 | 13 | 9 | 10 |
| 22 | 27 | 21 | 16 | 14 | 9 | 10 |
| 23 | 29 | 21 | 17 | 14 | 8 | 11 |

**Speed of belt is determined by size and rpm of drive pulley. This is again translated in terms of gear ratio to the revolution permitted by the variable drive.**

## Problems on Conveyor Arrangement

Pile Up: Characteristics are, an inspection belt with too many workers, too poor work.

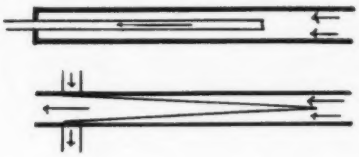


Solution: More belts, fewer workers on each belt.
Result: No duplication of effort.

Dead End: Characteristics are, product conveyed past a number of workers. Last worker is either flooded with or starved for work.

Solution: Return belt, product recirculation.
Result: All workers kept fully loaded. Less frequent adjustment necessary for belt speed.

Shuffle: Characteristics are a straight line belt for trimming or inspecting, with lots of untrimmed products going through.



Solution: Sorting belt or divided belt for items piece handled.
Items not handled are automatically culled.
Result: Speed goes down but quality goes up.

Information for these pages was provided by many manufacturers. Especially helpful were Robbins and Myers, Inc., Chisholm-Ryder Co. Inc., Scott Viner Co., Berlin Chapman Co., Waukesha Foundry Co., Lee Metal Products Co., Inc., Food Machinery and Chemical Corp., Spraying Systems Co. and Link Belt Co.

# State and regional canning and food processing associations and organizations

**Alaska Salmon Industry, Inc.**
200 Colman Bldg., Seattle 4, Wash.
Managing director: W. C. Arnold

**American Honey Institute**
Commercial State Bank Bldg., Madison, Wis.
Director: Mrs. Harriett M. Grace

**Associated Blue Lake Green Bean Canners, Inc.**
522 Pittock Block, Portland 5, Ore.
President: Max Lehmann, Northwest Packing Co., Portland, Ore.
Secretary-Treasurer: John Dilworth, Washington Canners, Vancouver, Wash.
Office Manager: Don Dawson

**Baltimore Canned Foods Exchange**
2105 Aliceanna St., Baltimore 31, Md.
President: Wm. E. Lamble, Jr., Southern Packing Co., Inc., Baltimore 23, Md.
Vice president: Rentzell D. Cleaveland, H. J. McGrath Co., Baltimore 24, Md.
Treasurer: E. Elmer Langrall, J. Langrall & Bro., Inc., Baltimore 31, Md.
Secretary: Ernest H. Langrall, J. Langrall & Bro., Inc., Baltimore 31, Md.

**California Canning Peach Association**
244 California St., San Francisco 11, Calif.
Manager: Ralph B. Bunje

**California Dried Fruit Research Institute**
1 Drumm St., San Francisco 11, Calif.
Director: L. B. Williams

**California Fig Institute**
108 Olive Ave., Fresno, Calif.
Manager-director: Dwight K. Grady

**California Fish Canners Association, Inc.**
Ferry Building, Terminal Island, Calif.
Executive Director: Charles R. Carry
President: Joseph M. Mardesich, Franco-Italian Packing Co., Inc., Terminal Island, Calif.
Vice president: N. F. Trutanic, Star-Kist Foods, Inc., Terminal Island, Calif.
Secretary-treasurer: J. R. Barry, California Marine Curing & Packing Co., Terminal Island, Calif.

**California Olive Association**
461 Market St., San Francisco 5, California
President: T. H. Read, Lindsay Ripe Olive Co., Lindsay, Calif.
Vice president: Dan S. Carter, Bell Packing Co., Berkeley, Calif.
Secretary-treasurer: Miss Erline Hevel

**California Olive Association**
461 Market St., San Francisco 5, Calif.
Secretary: Miss Erline Hevel

**California Processors & Growers, Inc.**
Financial Center Bldg., Oakland 12, Calif.
President: George Coley
Vice president: W. Harlow Waggoner
Executive vice president: John W. Bristow

**Canners League of California**
215 Market St., San Francisco 5, Calif.
President: Hamilton C. Davis, Walnut Creek Canning Co., Walnut Creek, Calif.
Vice president: Paul V. Rea, U. S. Products Corp., Ltd., San Jose, Calif.
Executive vice president: M. A. Clevenger

**Cling Peach Advisory Board**
153 Market St., San Francisco, Calif.
Manager: Stanley Plumb

**Eastern Shore of Virginia Packers Assn.**
President: Guy L. Webster, G. L. Webster Co., Inc., Cheriton, Va.
Vice president: H. E. Kelley, H. E. Kelley and Co., New Church, Va.
Secretary: Otto Lowe, Cape Charles, Va.

**Florida Canners Association**
P.O. Box 1459, 490 Third St., N.W., Winter Haven, Fla.
President: Claude C. Mershon, Fosgate Citrus Concentrate Cooperative, Orlando, Fla.
1st Vice president: Frank J. Poitras, Plymouth Citrus Products Cooperative, Plymouth, Fla.
2nd Vice president: Jerry Brown, Florida Food Products, Inc., Eustis, Fla.
Treasurer: Herb Apple, Jr., Birds Eye Div., General Foods Corp., Winter Haven, Fla.
Secretary: C. C. Rathbun

**Georgia Canners Association**
Box 73, Griffin, Ga.
President: W. Ennis Parker, Pomona Products Co., Griffin, Ga.
1st Vice president: Julian McPhillips, Jr., King Pharr Canning Operations, Inc.
Secretary-treasurer: Ken Williams

**Illinois Canners Association**
114½ N. Monroe St., Streator, Ill.
President: W. R. Benner, Streator Canning Co., Streator, Ill.
Vice president: Robert Truitt, Princeville Canning Co., Princeville, Ill.
Secretary-treasurer; W. D. Jones

**Indiana Canners Association**
2120 N. Meridan St., Indianapolis 2, Ind.
President: P. A. Schmith, Stokely Van Camp Co., Indianapolis, Indiana
Vice president: K. W. Lucas, Indiana Packing Co., Royal Center, Indiana
Treasurer: J. M. Rider, Rider C., Trafalgar, Indiana
Executive secretary: Warren Spangle

**Iowa-Nebraska Canners Association**
207½ N. 10th St., Marshall Town, Ia.
President: C. P. Roberts, H. J. Heinz Co., Muscatine, Ia.
Vice president: Tom Evans, Reinbeck Canning Co., Reinbeck, Ia.
Secretary-treasurer: Guy Pollock

**Maine Canners' & Freezers' Association**
P. O. Box 798, 184 Read St., Portland, Me.
President: Charles H. Bailey, Monmouth Canning Co., Portland, Me.
Vice president: F. Webster Browne, Snow Flake Canning Co., Brunswick, Maine
Secretary-treasurer: Harold C. Harmon, H. L. Forhan Co., Portland, Maine
Executive Secretary: John W. Gault

**Maine Sardine Council**
15 Grove Street., Augusta, Maine
President: Galvin Stinson, Jr., Stinson Canning Co., Birch Harbor, Maine
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# Checklist for Sanitation

**For the processed food plant with an established sanitation program, the following checklist can serve as a goad to management. Any sanitation program should be reviewed and evaluated, and sanitation practices brought up to date.**

**For the plant just beginning to develop a program this checklist can show up weak spots and omissions in the new program.**

## Management

1. Are you vitally interested in sanitation?
2. Have you made your staff aware of your interest?
3. Have you designated specific responsibility for sanitation maintenance to individual staff members?
4. Do you encourage staff members charged with responsibility for sanitation programs?
   a. Do your staff members have sufficient time to supervise sanitation operations?
   b. Do your staff members have the necesary technical qualifications to supervise and operate a sanitation program?
5. Are sanitation features considered in making repairs or in constructing new buildings?
6. Are sanitation features considered in selecting new equipment for your plant?
7. Do requests by your staff for new equipment receive your prompt attention?
8. Are you or your staff members regularly receiving information from an impartial source on up-to-date methods of sanitation maintenance and on the latest equipment?
9. Has your plant been surveyed by a qualified technician for its sanitation needs?

## Supervision

1. Do you have manuals showing procedures for cleaning and sanitizing operating equipment?
2. Are these manuals kept up-to-date?
3. Do you have a regular schedule for in-plant cleaning?
4. Is there a regular program of instruction in cleaning for new production personnel?
5. Is there a regular program of instruction in cleaning technique for new personnel in clean-up crews?
6. Do you have a requisition schedule for cleaning and sanitizing materials to be used for each job? or each day?
7. Do you specify amounts of cleaning and sanitizing materials to be used for each job? or each day?
8. Is cleaning equipment located for easy use and to minimize spillage?
9. Are you familiar with new techniques for in-place cleaning? for in-plant chlorination? spray cleaning of enclosed areas?
10. Do you evaluate new chemicals and new equipment for their application in your plant?
11. Are recommendations made on new equipment:
    a. on the type of construction material and its effect on sanitation and cleaning problems: porosity, corrosion, food discoloration, etc.?
    b. on the construction of supports and framework: joints, junctions, seams, etc.?
12. Is a particular chemical designated for a particular job?
13. Are insecticides for field or orchard crops specified by amounts? and is their application supervised?
14. Are insecticides used properly inside a food plant?
15. Are residual insecticides used properly outside the plant?
16. Are raw materials regularly inspected and tested?
17. Are raw materials stored in sanitary conditions?
18. Are methods of transferring and receipt of raw materials examined from the standpoint of sanitation?
19. Are screens adequate and properly installed?
20. Do doors and windows fit tightly?
21. Are cased goods in warehouse kept off the floor and 18" from the walls?
22. Are floors allowed to dry between washings?
23. Is waste water properly controlled, conditioned?
24. Are lagoons kept odor free?
25. Are trash containers provided?
26. Are garbage cans covered at all times?
27. Is there a code of personal cleanliness for production workers?
28. Is special clothing required?

## Inspection

1. Are there written instructions for inspection?
2. Are regular as well as special inspections made?
3. Are standards of cleanliness and sanitation established in measurable terms for all operations?
4. Are these standards rigidly adhered to?
5. Are checks made regularly and reports written on rodent infestation of buildings?
6. Does your plant look clean?
7. Are there lab facilities for testing raw materials for contamination?
8. Are there facilities for making bacteriological checks of equipment and processed foods?
9. Is cleaning equipment checked for serviceability?
10. Is production equipment checked for serviceability and sanitation hazards?
11. Is the supervisor of the clean-up crew present when some or all of the inspections are conducted?
12. Are defects and improper methods found during inspection, discussed 'on the spot' with the supervisor of the clean-up crew as to means of correction?

# Control Chart for Salt, Sugar

One of the most useful factors in producing uniform quality in processed foods is the measurement and control of specific gravity. This factor is also important in correct labeling and in separating products according to quality.

The quality control technologist has a definite responsibility to provide management with accurate data. He may be hampered in his efforts by a lack of precise instruments for measurement.

### Why Measure This Factor?

Many vegetables as they mature increase in their density or specific gravity content. Peas, corn, lima beans, potatoes and others do this. This increase in maturity can be measured by determining the specific gravity content of the product

Also in the manufacture of these products the separation of overmature, mature or immature products can be accomplished by specific gravity separation. This may be done by gravity separators, weight measurement or by size determinations.

Many fruits are packed in different concentrations of sugar solutions. The accuracy of these sugar solutions is important in retaining the quality of the fruit as well as in keeping true labels on the finished product. The concentration of the sugar solution can be measured by determining the specific gravity of these solutions

Finally, the determination of the specific gravity content is important in the control of the concentration of food products like tomato products, citrus concentrate, baby foods and in the manufacture of fermented products and pickles.

The Brix scale is probably the most universal scale encountered for sugar solutions. A degree Brix equals the percentage (by weight) of sugar. It is the same as the Balling Scale. In Table I, the relationships of Brix, Baume, Specific Gravity, etc. are presented for sugar solutions.

Hydrometers have also been developed to read the concentration or strength of other solutions. Table II shows the relationship of some of the different scales in use for salt solutions.

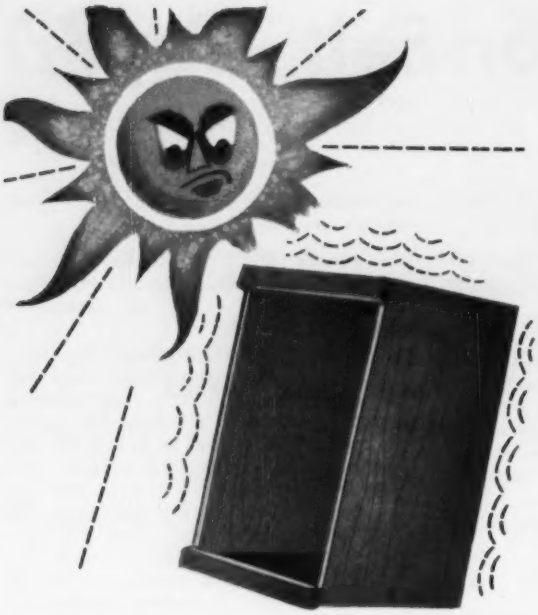
Regardless of the type of scale for any hydrometer, the technologist must know the temperature of the solution in question when taking a reading. All hydrometers are calibrated for use at a given temperature. This is usually stated on the stem of the hydrometer. The measurement of the specific gravity or the degree of concentration of the solution must be made at this temperature or appropriate corrections made according to the temperature of the solution. As an example, if the temperature of the solution is above the given temperature used in standardizing the hydrometer, the observed reading will be below the actual value for the sample. Conversely, for solutions colder than the standard temperature, the readings will be above the actual values. Of course, the solutions can be cooled to the temperature as used for the calibration of the hydrometer and no temperature correction would be necessary.

| Brix or Balling | Baume | Specific Gravity | Refractive Index | Solids per gallon in lbs. | Total Weight per gallon in lbs. |
|---|---|---|---|---|---|
| 0.0 | 0.0 | 1.00000 | 1.3333 | 0.000 | 8.338 |
| 5.0 | 2.79 | 1.01965 | 1.3403 | 0.424 | 8.485 |
| 10.0 | 5.57 | 1.03998 | 1.3478 | 0.866 | 8.655 |
| 15.0 | 8.34 | 1.06104 | 1.3557 | 1.325 | 8.830 |
| 20.0 | 11.10 | 1.08287 | 1.3638 | 1.802 | 9.012 |
| 25.0 | 13.84 | 1.10551 | 1.3723 | 2.300 | 9.201 |
| 30.0 | 16.57 | 1.12898 | 1.3811 | 2.819 | 9.396 |
| 35.0 | 19.28 | 1.15331 | 1.3902 | 3.360 | 9.599 |
| 40.0 | 21.97 | 1.17853 | 1.3997 | 3.924 | 9.809 |
| 45.0 | 24.63 | 1.20467 | 1.4096 | 4.512 | 10.027 |
| 50.0 | 27.28 | 1.23174 | 1.4200 | 5.126 | 10.252 |
| 55.0 | 29.90 | 1.25976 | 1.4307 | 5.767 | 10.486 |
| 60.0 | 32.49 | 1.28873 | 1.4418 | 6.436 | 10.727 |
| 65.0 | 35.04 | 1.31866 | 1.4532 | 7.135 | 10.977 |
| 70.0 | 37.56 | 1.34956 | 1.4651 | 7.864 | 11.234 |
| 75.0 | 40.03 | 1.38141 | 1.4774 | 8.624 | 11.499 |
| 80.0 | 42.47 | 1.41421 | 1.4901 | 9.418 | 11.773 |
| 85.0 | 44.86 | 1.44848 | 1.5033 | 10.244 | 12.054 |

**Table 1 — Relationship is shown between refractive index, degrees Brix, Baume, specific gravity, solids per gallon and total weight per gallon of sucrose solution. All readings are at 20° C. or 68° F.**

| Baume Reading 60°F. | Sp. Gr. 60°F. | % of Sodium Chloride | Salometer Reading (0°-100°) | Oz. Salt per Gallon |
|---|---|---|---|---|
| 0.8 | 1.0053 | 1 | 3.8 | 1.3 |
| 1.8 | 1.0125 | 2 | 7.6 | 2.6 |
| 2.8 | 1.0197 | 3 | 11.4 | 4.9 |
| 3.8 | 1.0268 | 4 | 15.1 | 5.3 |
| 4.8 | 1.0340 | 5 | 18.5 | 6.7 |
| 5.8 | 1.0413 | 6 | 22.6 | 8.1 |
| 6.3 | 1.0486 | 7 | 26.4 | 9.6 |
| 7.7 | 1.0559 | 8 | 30.2 | 11.1 |
| 8.6 | 1.0632 | 9 | 34.2 | 12.7 |
| 9.6 | 1.0707 | 10 | 37.7 | 14.2 |
| 10.6 | 1.0782 | 11 | 40.5 | 15.8 |
| 11.5 | 1.0857 | 12 | 45.3 | 17.5 |
| 12.4 | 1.0933 | 13 | 49.1 | 19.1 |
| 13.3 | 1.1009 | 14 | 52.8 | 20.8 |
| 14.2 | 1.1086 | 15 | 56.6 | 22.6 |
| 15.1 | 1.1162 | 16 | 60.4 | 24.4 |
| 16.0 | 1.1241 | 17 | 64.2 | 26.2 |
| 16.9 | 1.1319 | 18 | 68.0 | 28.1 |
| 17.8 | 1.1399 | 19 | 71.7 | 30.0 |
| 18.7 | 1.1478 | 20 | 75.5 | 32.0 |
| 19.5 | 1.1559 | 21 | 79.2 | 34.0 |
| 20.4 | 1.1640 | 22 | 83.0 | 36.1 |
| 22.2 | 1.1804 | 24 | 90.6 | 40.4 |
| 33.9 | 1.1972 | 26.5 | 100.0 | 46.1 |

**Table 2 — Relationship is shown between Baume, specific gravity, percent salt, degree Salometer and ounces of salt per gallon for various levels of concentration.**



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## Advertisers' Index

American Box Corp. ..... 70
American Can Co. ..... 9
Anchor-Hocking Glass Corp. ..... 6-7

Berlin Chapman Co. ..... 61
Brockway Glass Co., Inc. ..... 4th Cover
Burt Machine Co. ..... 83

Callahan Can Machine Co. ..... 40-41
Cellu-san Chemical Products Div., Darworth Inc. ..... 102
Chisholm-Ryder Co., Inc. ..... 53
Corn Products Sales Co. ..... 10
Crown Cork & Seal Co. ..... 39

Diamond Crystal Salt Co. ..... 44
Dodge & Olcott, Inc. ..... 42
Du Pont de Nemours & Co., E. I. ..... 3

Economic Machinery Co. ..... 43

Ferry-Morse Seed Co. ..... 67-68
Food Machinery and Chemical Corp. ..... 3rd Cover

Globe Woven Belting Co., Inc. ..... 57

Hamachek Machine Co., Frank ..... 69
Hamilton Kettles, Div. of Brighton Corp. ..... 61
Heekin Can Co. ..... 2nd Cover
Hume Co., H. D. ..... 71

Knox Glass Inc. ..... 11

Metro Glass Co., Inc. ..... 81
Muirson Label Co., Inc. ..... 85

National Can Corp. ..... 4

Pfizer & Co., Inc., Chas. ..... 50
Porter-Way Harvester Mfg. Co. ..... 66

Robins & Co., A. K. ..... 47

Scott Viner Co. ..... 59
Schubert Co., H. A. ..... 82
Speas Co. ..... 63
Standard Metal Products ..... 55
Swift & Co. ..... 8

Urschel Laboratories, Inc. ..... 12

Warner Inc., Lansing B. ..... 87

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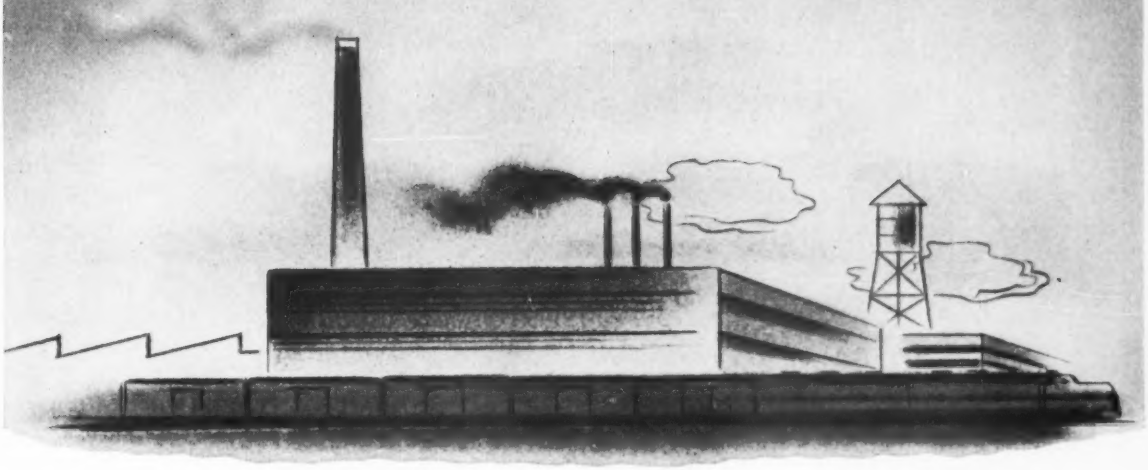

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# CANNER/PACKER

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Mrs. Patricia M. Colling
University Microfilms, Inc.
313 N. First Street
Ann Arbor, Michigan

Dear Mrs. Colling:

Thank you for your letter of June 8 addressed to the Triad Publishing Company in Chicago. In this letter you request certain issue numbers of CANNER/PACKER.

CANNER/PACKER's first issue was the October, 1958 issue, Vol. 127, #7. This numbering was picked up from the oldest of the three magazines which combined to make CANNER/PACKER. Below we are listing the last issue of each publication so that you will not think you are missing certain issues when actually they weren't issued:

| | |
|---|---|
| FOOD PACKER | Last issue published Vol. 39, #10 Sept. 30, 1958 |
| CANNER & FREEZER | Last issue published Vol. 127, #6 Sept. 15, 1958 |
| WESTERN CANNER & PACKER | Last issue published Vol. 50, #10 Sept., 1958 |

As you can see from the above, the numbering for the new CANNER/PACKER was picked up from the numbering on CANNER & FREEZER.

With specific regard to your letter of June 8, you will see then that there is no Vol. 39, Nos. 11, 12 and 13 which you requested. With regard to your request for Vol. 40, Nos. 1-5, we believe you must mean the Jan. - May, 1959 issues of CANNER/PACKER (Vol. 128, Nos. 1-5). We are forwarding these to you via Second Class Mail.

If this isn't what you need, would you be so good as to write us again and refer to the journal as well as the volume and issue number. We might be able to supply some of the old issues of the old journals although they are quite scarce.

Gael Hodgkins
Miss Gael Hodgkins
Circulation Department